

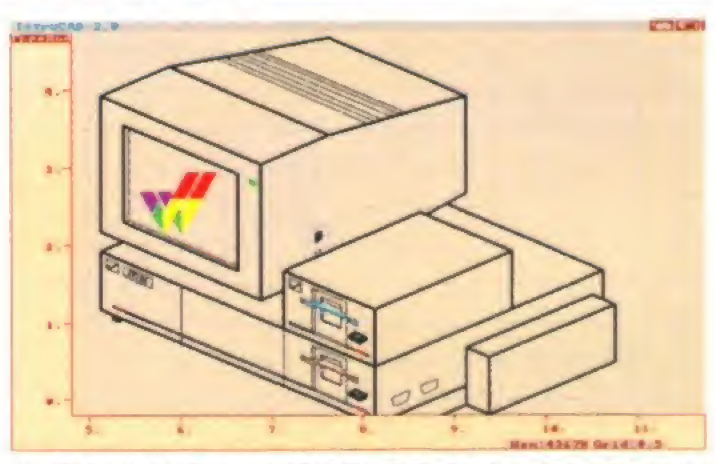
AMIGA FORMAT

ISSUE 38 ■ SEPTEMBER 1992 ■ £3.95

Pop-tastic!
Complete £60 package

The **AMIGA** Collection
FORMAT

No.6 RRP £60
IntroCAD
Progressive Peripherals and Software



FULL COMPUTER AIDED DESIGN PROGRAM!
Intelligent design, you might call it. Create shapes, lines and objects then change and edit them at will to produce complete drawings: it's magic!

● A 500 Plus Compatible ● 1Mb Recommended ●



Give your 500 Super Power!

Stretch your machine to the limit!
Make it faster, bigger, more powerful
with the best expansions you can buy

Get a new image!

Find out how a new monitor can make everything look brighter, sharper and more colourful!



PLUS which mouse to buy

AMIGA Down at the Arcade
FORMAT

3D Construction IKit 2
Try your hand at creating 3D games in Domark's astonishing and fascinating demo

Personal Finance Manager Plus
See how Microdeal's home accounts package can help you by trying this useable demo

The Degradar
Frees you from those compatibility worries!

Auto Disk Logger
Keep track of your software collection

ECE adventure game cheats
Get more out of Eye of the Beholder 2 - it's easy!

1Mb and 512K ● A 500 Plus Compatible

NO COVERDISKS?
THEN ASK FOR THEM FROM YOUR NEWSAGENT

A NEW CLASSIC: Civilization
GAMES IN ACTION: Hook, Pushover and Crazy Cars III
MODEMS: we reveal the best
DIGITISERS: grab the right one

Future
PUBLISHING
Your guarantee of value



A TRULY OLYMPIC



COMPETE
WITH THE
BIGGEST



OVER 30 EVENTS!

Featuring ALL
Track and Field
disciplines.
Stunning animation and
breathtaking action!

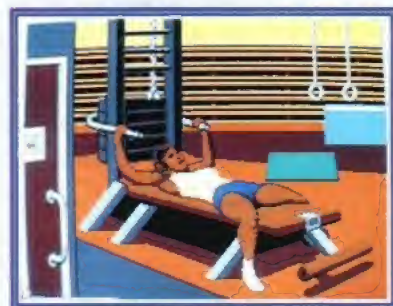


COMPETE
WITH THE
BEST



FREE DATA DISKS!

Even more events
which include:
SWIMMING . DIVING
JUDO . WRESTLING
FENCING . BOXING



OCEAN SOFTWARE LIMITED
6 CENTRAL STREET · MANCHESTER · M2 5NS
TEL: 061 832 6633 · FAX: 061 834 0650

SPORTS SENSATION

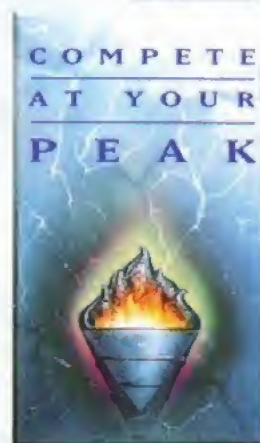


AVAILABLE FOR:
ATARI ST · CBM AMIGA · PC & COMPATIBLES



TEAM MANAGEMENT

Put yourself in charge
of training your squad
for this summer's
competition.



HALL OF FAME

Includes the history of
the games and the
winning contestants'
achievements.

Compare your team
members' performances to
those of the all time greats
as you attempt to break
world records.



AMIGA FORMAT 38 SEPTEMBER 1992

EDITORIAL DEPARTMENT

EDITOR	Damien Noonan
DEPUTY EDITOR	Karl Foster
REVIEWS EDITOR	Neil Jackson
TECHNICAL EDITOR	Pat McDonald
PRODUCTION EDITOR	Gary Lord
STAFF WRITER	Andrew Nuttall
STAFF WRITER	Tim Howell
STAFF WRITER	Asam Ahmad
EDITORIAL ASSISTANT	Clare Hodgson

ART DEPARTMENT

ART DIRECTION	Marcus Dyson
DESIGN	Frank Bartucca

ADVERTISING DEPARTMENT

GROUP AD MANAGER	Jonathan Bint
DEPUTY AD MANAGER	Duncan Ferguson
GAMES SALES MANAGER	Cheryl Beesley
SENIOR SALES EXECUTIVE	Louise Woods
SENIOR SALES EXECUTIVE	Robert Anderson

PUBLISHING

ADVERTISING PRODUCTION	Tracey O'Donnell
PROMOTIONS MANAGER	Michele Harris
CIRCULATION DIRECTOR	Sue Hartley
CIRCULATION ASSISTANT	Kate Elston
PUBLISHER	Greg Ingham

PRINTED IN THE UK BY
Chase Web Ltd, St Ives PLC, Plymouth
NEWSTRADE DISTRIBUTION, UK
Future Publishing, 0225 442244
NEWSTRADE DISTRIBUTION, OVERSEAS
MMC Ltd 0483 211222

AMIGA FORMAT

30 Monmouth Street
Bath, AVON, BA1 2BW

Telephone 0225 442244
Facsimile 0225 446019

SUBSCRIPTIONS, BACK ISSUES and MAIL ORDER

Future Publishing, Somerton,
SOMERSET, TA11 6TB

Telephone 0458 74011
Facsimile 0225 446019



No part of this publication may be transmitted or reproduced in any form without the permission of the publishers. Ooh, that 'ard!

Out-of-date joke of the month:

What's the unluckiest animal in the world?

The hedgehog that crossed six lanes of the M1 then got hit by an aeroplane...

Member of the Audit Bureau of Circulations

Registered Circulation	130,143
July - Dec 1991	

News

- The A570 CD-ROM drive is on sale** 19
Plus news of a big new Show and full-motion video
- Philips' CDI system arrives** 28
How does the other CD entertainment system compare?
- SPECIAL: Commodore interview** 30
Kelly Sumner, new MD of Commodore, speaks openly

Screenplay

- The dawn of Civilization** 48-51
Games guru Sid Meier on how his new classic came to be
- What's in a name?** 54-7
So, is it really true that all film licences are utter rubbish?
- Cheap 'n' Cheerful** 96-7
How to get top-class games without paying too much
- Gamebusters** 103-9
Including the best guide anywhere to Monkey Island 2.

Reviews

- Coming Contraptions** 115
See what goodies are on the way in the non-games scene
- A-Max II Plus** 128
The amazing new Mac emulator: just look, it's stunning!
- Datel Real-time Colour Digitiser** 144
Is this the low-cost video grabber you've been waiting for?
- AD1012/Studio 16** 146
Introducing 16-bit sampling and direct-to-disk recording
- AVideo 24** 148
The first real 24-bit graphics card that even you can afford!
- Action Replay III** 152
Don't just play games: take 'em apart, see how they work!
- Epson flatbed A4 colour scanner** 154
A great new tool for anyone who's serious about images
- 24-bit Textures** 155
Tested: two excellent resources for video and 3D graphics
- The Reverser** 155
If you're into animation, this utility could be what you need

Regulars

- PD Update** 165
Which new free software is worth getting hold of?
- Workbench** 191
Readers ask for advice and offer some useful tips
- Workbench Answerfile** 198
Your problems solved, your questions answered
- Letters** 203
Find out what's making waves with Amiga owners
- Mail Order** 180
Some very special offers: good stuff at bargain prices
- Subscriptions** 186
Make it easy on yourself: get your mag delivered!

The Future Entertainment Show

Earls Court 1 & 2
November 5 - 8 1992

IN NEWS

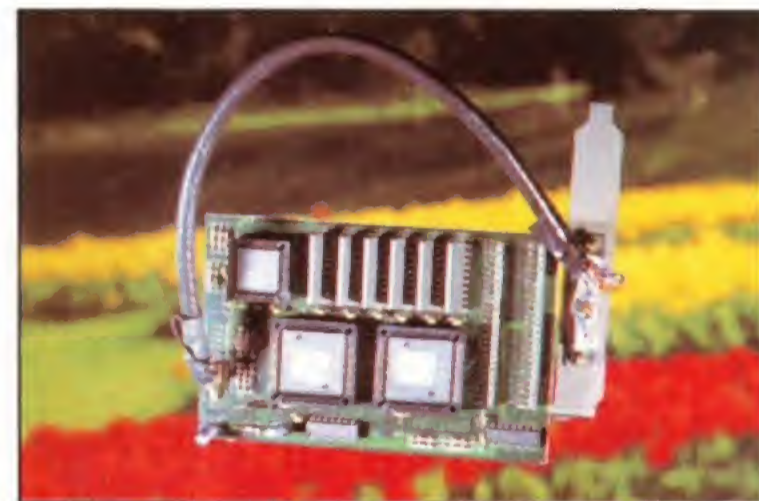
Exciting new developments for the CDTV as a new pack is released that includes mouse, keyboard and disk drive to match...



CIVILIZATION
The latest in a long line of god games. But does it match up to the rest?



HOOK
Can Ocean's big licence rival US Gold's Monkey Island 2?



REVIEWED
AVideo 24

For the first time, there's a 24-bit card that you can afford - so is this to be the route to 16 million colours for you?



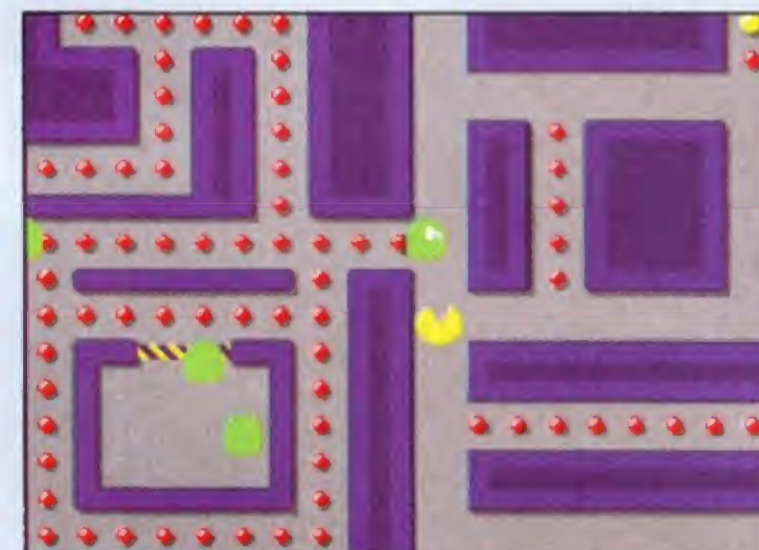
REVIEWED
AD1012/Studio 16

OK, it looks dull: but this amazing hardware and software combo gives you 16-bit sampling and direct-to-hard-disk music recording...



REVIEWED
Texture Disks

If you want to make your video images more real, these two sets of ready-made textures could be the answer you require.



IN PUBLIC DOMAIN

Tim Howell explores the world of free games and utilities software, and makes a few recommendations.



IN PUBLIC DOMAIN

The world of the PD Demo comes under close scrutiny once more. Graphics, animations, music, it's all here.

Give your A500 Super Power!

The A500 might not be made any more – but you're a fool if you think it's anything but alive and kicking.

And here's the proof. A500 expansions are coming out that can make your Amiga unbelievably powerful. Find out where to start in our special feature on PAGE 35



Which monitor?

If you're still using a television to show your Amiga screen display, you're missing out. If you want to upgrade to a new screen, all the info you need starts today on PAGE 118

Which mouse? Which modem?

If you're buying a new one, first read our review round-up on PAGE 157

Discover the world of comms and pick the best hardware now on PAGE 135

Game reviews in Screenplay

Air Bucks	81	Links - Firestone Course	85
BSS Jane Seymour	97	MegaFortress	74
California Games 2	76	MegaTraveller 2	68
Civilization	51	Omar Sharif's Bridge	93
Crazy Cars 3	64	Push-Over	84
Crazy Seasons	78	Seymour Goes to Hollywood	96
Emlyn Hughes International Soccer	96	Sim City Architecture 1	97
European Champions	65	Sim City Architecture 2	97
G-LOC	92	Sim City Terrain Editor	97
Gobliins	60	Sleeping Gods Lie	97
Guy Spy	92	Super Tetris	89
Hoi	92	Tennis Cup 2	93
Hook	56	Vikings	78
International 3D Tennis	96	Warriors of Releyne	78
Links - Bountiful Course	85	Winter Sports 92	65

Welcome to Amiga Format!

Hello there and welcome to another issue of the world's best-selling magazine for all Amiga owners.

As ever, we've got a cocktail of the best in reviews and interesting reading lined up for you here, so if you're a new reader we hope you enjoy it.

If you're a regular reader, you may notice a few changes this month. In response to the results of the reader survey we carried out in April, we've decided to tweak the content of the mag to try to make it how you'd like it.

As a result, the game previews have been chopped (well, they were a little bit dull, weren't they?) although there is plenty of news about the upcoming games releases in a more compact form in the News pages.

And there's another point. Far and away the top of the list, when we asked you what you'd like to see more of, was news. So we've expanded the news section to a massive eight pages.

This not only allows us to bring you a few more in-depth stories, but it also gives us the space to tell you a little bit more about the people who are making things happen



Damien Noonan, Editor

behind the scenes in the Amiga world. And we're kicking off with a biggie: Kelly Sumner, the new MD of Commodore UK, spoke to us at length and has told us some pretty interesting stuff: give it a read!

Elsewhere in the magazine, you might notice a quite remarkable concentration of complete buyers' guides and review round-ups. These also came out as very popular in the survey, so we're packing them in. There's monitors, mice and modems this month, and more to follow next time.

Always remember, if you have ideas for what you'd like in the mag, please write!

COVERDISK over the page...

AMIGA FORMAT

1Mb and 512K • A 500 Plus Compatible

3D Construction Kit 2

Down at the Arcade

Try your hand at creating 3D games in Domark's astonishing and fascinating demo

Personal Finance Manager Plus

See how Microdeal's home accounts package can help you by trying this useable demo

The Degradar
Frees you from those compatibility worries

Auto Disk Logger
Keep track of your software collection

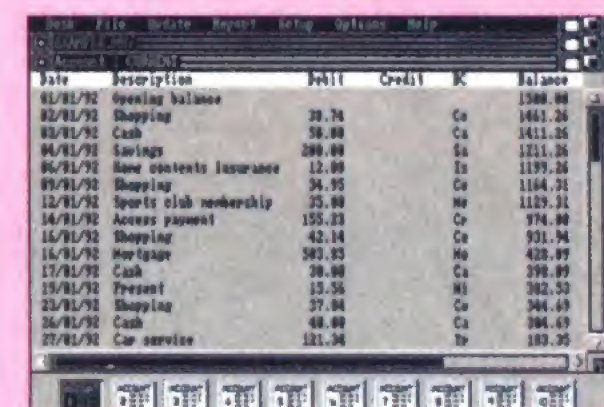
ECE adventure game cheats
Get more out of Eye of the Beholder 2 - it's easy!

3D Construction Kit



Get involved in the weird and wonderful world of game creation with Incentive/Domark's amazing three-dimensional game-making demo

Personal Finance Manager Plus demo



If you want to keep track of your spending, this could be the answer. Try out the latest accounts system from Microdeal and see if it suits...

The Degradar

Downgrade your system to run more software

Disk logger 1.3

Catalogue what's on each of your floppies

EOTB2 Char Ed

Stuck on Eye of the Beholder 2? Try this!

and on p11... IntroCAD

The AMIGA Collection

No.6 RRP £60

IntroCAD

Progressive Peripherals and Software

FULL COMPUTER AIDED DESIGN PROGRAM!

Intelligent design, you might call it. Create shapes, lines and objects then change and edit them at will to produce complete drawings: it's magic!

A 500 Plus Compatible • 1Mb Recommended

The sixth in The Amiga Format Collection series of COMPLETE, FULL-PRICE PACKAGES, try your hand at CAD or structured drawing!



AMIGA FORMAT Down at the Arcade

3D Construction Kit 2

Try your hand at creating 3D games in Domark's astonishing and fascinating demo

Personal Finance Manager Plus

See how Microdeal's home accounts package can help you by trying this useable demo

The Degradier
Frees you from those compatibility wares

Auto Disk Logger
Keeps track of your software collection

ECE adventure game cheats
Get more out of Eye of the Beholder 2 - Easy!

1MB and 512K • A 500 Plus Compatible

Coverdisk

Pat McDonald brings you all the information to get the most out of your Coverdisk possible. So glance through these pages and you'll soon be wandering in Freescape, cheating at EOTB2 and making all your software more compatible.

AMIGA FORMAT

SEPTEMBER 1992

This game demo has quite a significant pedigree. It all started a few years ago, when a guy called Andrew Smith designed a 3D game system. Today, people happily stick the label 'Virtual Reality' on that type of game, but in the pre-Gibson years that cliché hadn't even been invented. So Andrew called it 'Freescape' instead.

Freescape games were very popular, and were



Once you're outside the starting area, you have to puzzle out how to break this barrier in order to get another candle and teleport to the third area.

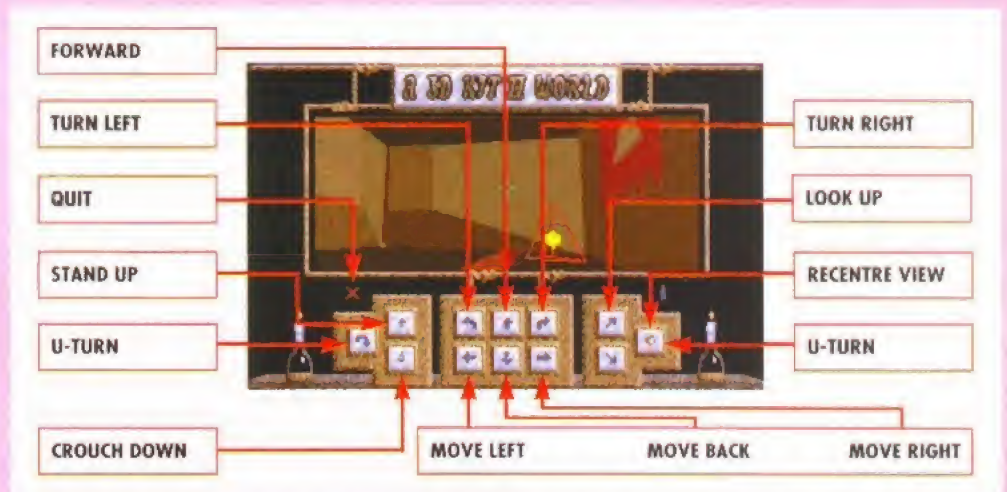
converted to the Amiga when it became popular. Then the designer thought it would be a good idea to write a program that would let people create their own Freescape worlds and games. *3D Construction Kit* was born!

This demo offers none of the editing facilities – you can only play it as a game, not design your own worlds. However, if you look closely, you will see some of the new features in action.

To return to the game. You are cut off from the outside world. The idea of the game is to collect 10 candles, which will light the way down a tunnel and so let you escape. Simple enough.

You don't have to actually pick up the candles and plonk them down somewhere else. Instead, every time you get a candle, a short video sequence will play of the escape tunnel. The more

3D CONSTRUCTION KIT 2 DOMARK/INCENTIVE PAL/NTSC



candles that you collect, the further you'll go down it. Beware though – there is a time limit, because candles don't burn for ever...

Playing this type of game is definitely a 'hands on' experience. True, from the screen shots it doesn't look awesome – but 3D worlds ready to explore can be mightily addictive when you pick up a mouse. Don't start playing unless you have an hour or three to spare.

As I mentioned, the demo is played entirely with a mouse. You can see a mouse pointer whizzing around on the screen. Both of the mouse buttons are used in the game – try clicking the left one when the mouse pointer is in the 3D view screen. Laser beams appear going towards where you were pointing. That's how you shoot things in this game.

Pressing the right button will activate objects (like candles and switches). You need to be close to the object you are trying to activate – but before you can get closer I suppose it would be helpful to know how you move around.

When you click with the left button on any of the direction arrows you will get various different effects. Most of them will just move you in a line, but the two diagonal arrows and the ones next to the eye icon are a bit different. The diagonals rotate you to the left and right, and the eye icons move your view up or down.

Clicking on these with the left button is the fine form of control. Alternatively, use the right mouse button – your movement will be swifter but jerkier. Do enjoy exploring this 3D world of Freescape, and look out for the finished product in September.



Once you've put the disk into an Amiga and double clicked with the left button on the icon, this window will appear. Choose what you want to see by moving the mouse pointer to the icon and double clicking again.

GETTING STARTED

It's very easy to get a Coverdisk going, once you follow these simple instructions. Just place it into any Amiga computer, and either turn it on or (if it is on) reset the machine by pressing Ctrl and the two keys either side of the spacebar. A cut down version of Workbench will load.

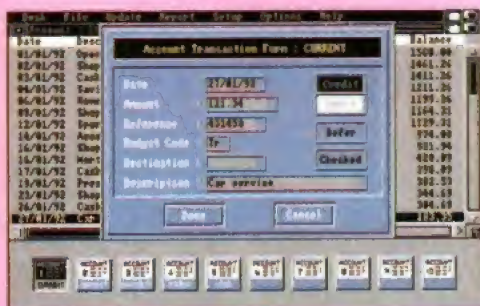
You should now see an icon called 'Coverdisk38b'. Move the mouse pointer to it and double click with the left mouse button. A window showing the contents of the disk will appear – again, move to and double click on the item you want to see in order to set it going. This applies to both programs and documentation files.

There is a drawer marked 'EobCharED'. Double clicking on this will bring up another window, showing the contents of the drawer. I guess I could have put these on the main window, but that might have been crowding it a little.

To get rid of any window, click on the box in the top left-hand corner – one click is enough. If you want to get back to Workbench while in the middle of a document then just press Esc. Finally, if you have a printer connected up to your machine, then you should be able to print the documentation files. Just click on 'Print files' when the docs are displayed, that is while you are looking at them.

This is only a demo, but lets you do more than might appear the case at first glance. The original *Personal Finance Manager* was simple enough to understand – it was a database to keep track of your income and expenses. Have Microdeal overly souped-up a simple and effective product?

Not at all. The full program can have up to 10 different accounts set up – one for your bank account, one for your credit card, and so on. Money can be transferred between the accounts – for instance, paying off a credit using a cheque from your bank. Best of all though, *PFM Plus* takes notice of a real-time clock, and will use it to automatically carry out regular transactions like standing orders.



Once you've loaded the program, *PFM Plus* will wait for you to select an account. Just double click on the boxes at the bottom of the screen, and a list of transactions will appear. Clicking on any of them will let you view and edit them. Notice the Budget Code – this is a short hand form for organising your account into Consumables, Transport and so on.

PERSONAL FINANCE MANAGER PLUS

MICHRON/MICRODEAL PAL ONLY

This means you have a better idea of how much money you've got at any one time. Some transactions take time to transfer, but no transaction will be accounted until you confirm it. For instance, you know that a given cheque has cleared.

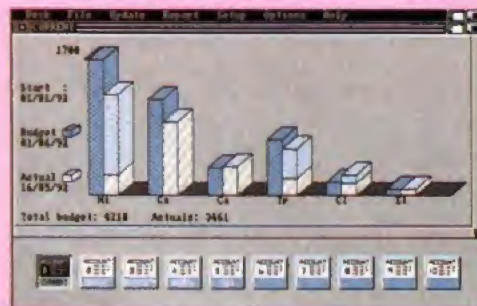
So far, to be honest, these features are no big deal. However, one thing that *PFM Plus* can do is categorise all your expenses, so that you know where most of your money is disappearing to. Add on the very simple graphical interface where you do most of the work with just a mouse, and it's really very good.



This is a graphic view of your accounts as they rise and fall – the white area in the middle of the display is when the account dipped into the red. It's more informative to see expenditure as dips on a graph rather than a list of numbers.

But there's even more icing on the cake. *PFM Plus* lets you budget for a given period of time, and matches your budget to actual spending. The comparison makes for very interesting viewing – especially when you are trying to trace your ever decreasing funds.

Without a doubt, the best way to learn about the program is to actually sit down and use it. Next to the *PFM Plus* icon is another icon called Readme. Double click on this to get much, much more information than I could possibly supply here. It's more of a hands-on tutorial than an introduction like this.



This is the one of the more useful displays. Each of the bars is one of the 'Budget Codes' to which transactions are allotted. *Personal Finance Manager Plus* lets you accurately see just how much you are spending on transport, electricity and so on.

All right, the Amiga has been around for quite a long time now, and some of that there older software does not work on later systems with more chip RAM, Kickstart 2, ECS or accelerator cards. Simply because when this software was written, the programmer had insufficient knowledge or foresight to see where the machine was going.

The Degradar isn't a full solution to this problem, but can make some older software work with newer machines – it's a partial solution. The theory behind it is that it turns off some extras, reducing the machine to an older, unexpanded specification.

It can't actually change the hardware in your system, for example it can't replace the Agnus, Denise or Kickstart ROM chips with the older versions. But it can take you back to the days when 512K of chip RAM and one disk drive was the only game in town. It can turn off caching and neutralise machine code instructions that work differently on accelerator cards.

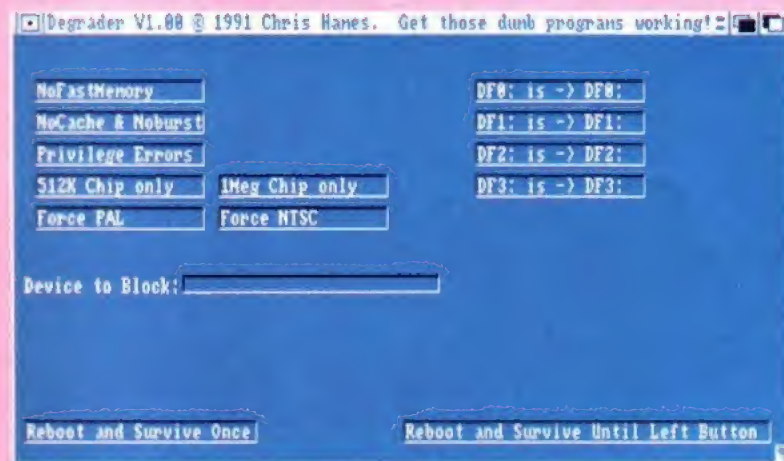
Using it is simple enough. All you have to do is double click on the icon and a screen comes up with all the options that *Degradar* can perform. Select the ones you want and decide how permanent you want to make the degradation. Usually rebooting once is fine.

If the program is working at this point, then the machine will reset with the selections you made active. The screen should go blue, and then reboot – it's a good idea to take the Coverdisk out while this is happening so the machine doesn't start running it again. Instead, try the software that doesn't normally work on your machine – some of it at least should start working!

However, it would be wrong for me to suggest that the program works successfully with all Amiga setups – it doesn't seem to work with my very old GVP hard drive in a new B2000. Also, the NTSC/PAL switch does not seem to work on Workbench 2 machines.

THE DEGRADER

CHRIS HAMES PAL/NTSC



If you're not entirely sure what an NTSC/PAL switch is, I'll explain. The TV systems used in North America and Japan are different to the one used in Europe and Australasia – the former is called NTSC, the latter PAL. So Amigas come in two general flavours, ignoring different models like A500, B2000 and so on.

The point is that a lot of more modern Amigas can switch between the two systems. Both systems have their advantages; NTSC has less resolution, but works at 60 frames per second. Which is faster than PAL at 50 frames per second, but then PAL gives you a higher screen resolution.

That's why a lot of programs don't use all the screen – on PAL Amigas, program written for NTSC always has a big blank area at the bottom. NTSC Amigas running PAL programs usually results in

the bottom of the screen being below the physical bottom of the TV area.

By changing your Amiga to the system that the software expects, then the screen will always just about fit within the borders of the display. However, there is one flaw – your TV or monitor must have a vertical hold control. If it does, try running *Degradar* and choosing the system that you don't have, then alter the vertical hold very slightly to get a stable picture.

It's beneficial to PAL users because the machine runs slightly faster and those NTSC games occupy the whole screen. It's beneficial to NTSC users because they can see the whole screen area that PAL uses. Useful feature eh? Lots of shareware does this – if *Degradar* does not, track down something that does!



After you've had an Amiga for a few months, you tend to find the number of floppy disks you have lying around gets beyond a joke. What's on this? What's that? How can you possibly remember all the disks' contents?

Of course, you can slap on a disk label and list the contents on there. Unfortunately, when you're right in the middle of a game and need a disk to save the game on, chances are that you haven't got a real blank to hand. So you save your games on an old disk – and the label's out of date straight-away. Peeling them off neatly is difficult.

By no means everyone is so disorganised, but many people are. The reason why I know is because I'm one of them. If you've never been involved with Public Domain disks at all, you would be amazed at how many thousands of unlabelled disks you can obtain over a few months.

DISK LOGGER 1.3

RICH AND STEVE BAMFORD PAL ONLY

This program is designed to bring some order to a chaotic disk collection. You don't have to type lots to use it. It relies mostly on the mouse, to select different labels and ratings for the program to remember about a given disk.

You don't even have to remember what a disk is called – *DiskLogger* will read this information automatically when you insert a disk. However, this will not work with non-AmigaDOS disks, in other words ones with protection.

Although it takes some time to put your disk collection through *Disk Logger*, you'll find it a great help after you've been through that chore. It really does make life easier – it did for me anyway. If you have a printer too, so much the better.

Here's the main work screen of the program. To view through the database, click and drag the top slider – this will take you back and forward through your disk collection. The bottom slider controls the personal rating you give to the disk – how good you think it is.



Before you start using *DiskLogger*, you have to select a database file already created on the program. There is one on the Coverdisk called *NoName.DLOG* (the default name) so just click on *Proceed* to get into the program.



This is the *Select* screen, used for editing the comments you make about a particular disk. Just click in any of the boxes, use the *Del* and *backspace* keys to delete what's there and type in your own comment instead.

Eye of the Beholder 2 is one of my favourite games. It's got atmosphere, action and requires a bit of strategy to get further. It's a shame, though, that you can start a game well, get so far – and then get stopped by a puzzle because the character party just isn't up to the challenge.

It's a very easy program to use too. Just double click on the Coverdisk icon, and the front end of the program will load. From here you can load a game save file (off the disk you normally save games to – you'll have to take the Coverdisk out) and edit certain parts to help you out on your quest. Then you save the edited version back to the game save disk. Simple eh?

At first glance, this program appears to have no 'Quit' option. However, if you press the key to

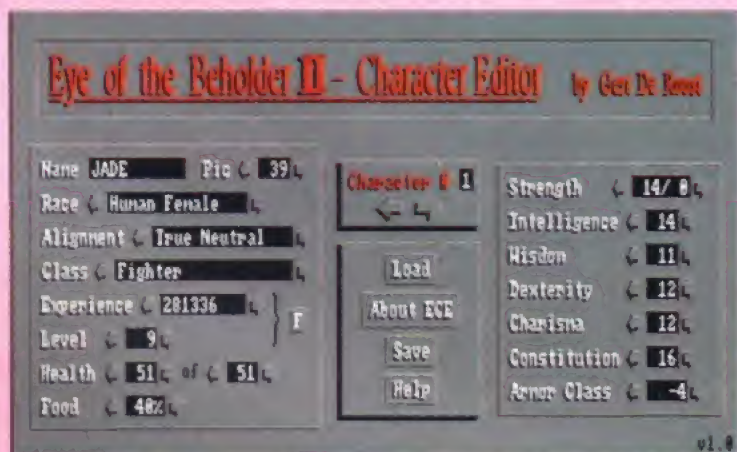
EOBCHARED GERT DE ROOST PAL ONLY

the left of the spacebar and Q simultaneously, you'll get back to the Coverdisk. The *About* option just tells you when the program was written, by whom and with what. The *Help* option just tells you to look at the *Readme* file.

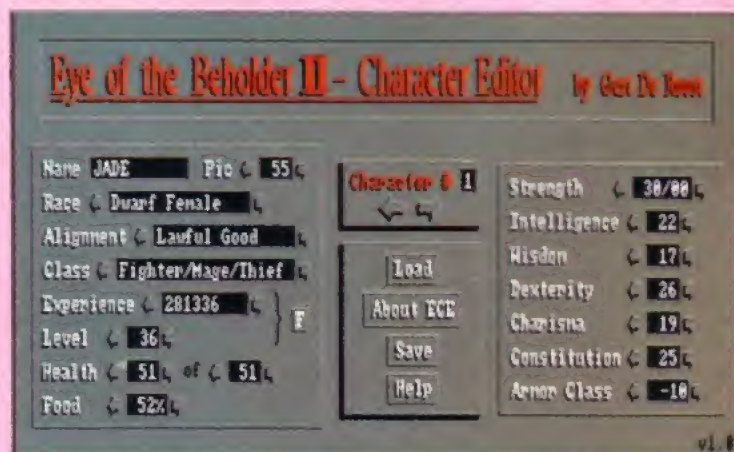
Here's how it works. All of the statistics of one party member will be displayed. Most of them have an arrow to either side. Click on the left arrow to make a statistic go down, and on the right to make it increase. Gaining experience points and gold has never been easier! If you click with the right mouse button rather than the left the values will change much faster than using the left.

When you click on the left and right buttons under character '#', the particular character you are editing will change. The character '#' often means 'number'. To change the name of a character, click in the *Name* box, use *Del* and *backspace* to erase what's there, then type in the new name.

Beware of making changes that are too large. While playing the game proper you get more experience points, strength boosts and so on. If a value gets too big, it will wrap around and become negative. More caveats to beware when using the program can be found in the *Readme* document – do at least browse this before using the program.



Here's a totally typical *Advanced Dungeons and Dragons* character. Mostly brawn with average brains, not very tough. But after a few mouse clicks, it's very easy to turn her into something totally different.



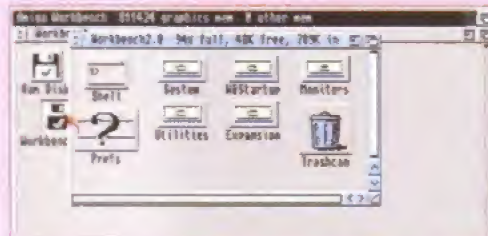
The same character, having become a Dwarf Female of immense capabilities. Stronger than the average god and with a wide range of talents, and mightily experienced with it. Kick in an evil dragon today!

Using Your Coverdisk

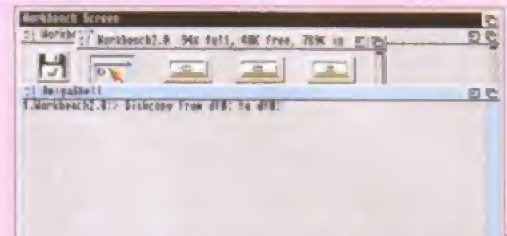
1. Always write-protect your disk. Move the tab so that a hole is showing.
2. Copy the Coverdisk and use the copy, not the original. This may sound like a complicated task, suitable only for techno buffs, but it's surprisingly simple to do. Just follow the copying instructions given below.
3. Read the instructions when using the programs.

Backing up your Disk

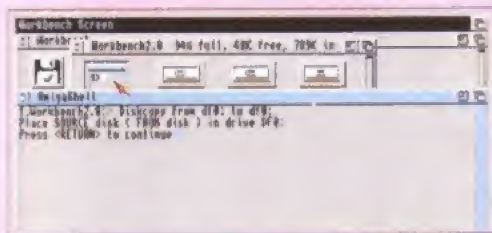
There are two ways of making a copy of your disk, and this is the easy one. Don't be daunted by the fact that you need to use the Shell or CLI: it's actually a lot easier than you might think. Just follow these simple steps...



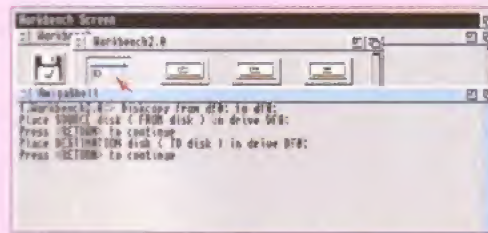
1 Load your Workbench disk. Open the disk, find the icon that says Shell or CLI and double-click on it.



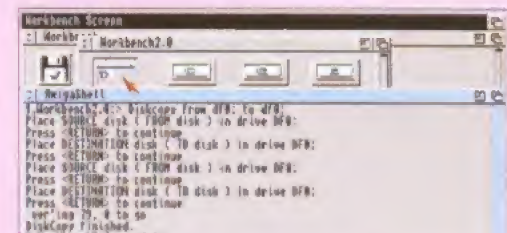
2 When the Shell window appears and the drive light is out, type in:
Diskcopy from DF0: to DF0:
and press Return.



3. The Amiga will now ask you to insert the 'source' disk. It means the disk you want to copy, so put the Coverdisk in the drive and press Return.



4. Wait for a while and it will read all the information off the Coverdisk, telling you how far it has got. Then it will ask you to insert the 'Destination' disk. Put the disk you want to copy your Coverdisk on to in the drive and press Return. Note that the disk does not actually need to be formatted all ready.



5. Put the source disk and destination disk in a couple more times when the Amiga asks for them. When it says 'Diskcopy Finished' just type in:
endcli
to get out of the Shell or CLI. You may have to put the Workbench disk in again. Now your copy is ready!

DISK PROBLEMS?

If you have a problem with the disk – and you're sure the disk is in full working order – then you may need a little help. If you ring us on any Tuesday and ask to speak to Pat McDonald, he will do his best to help you. Please understand, giving this sort of advice is time-consuming and we are very busy people, so only call if you really have to and do be considerate if we can't talk to you just then. If the problem is particularly complex it is better to send it to us in written detail. It will then be dealt with in the Workbench pages of the magazine.

BE CAREFUL!

We do our best to check that the programs on the **Amiga Format** Coverdisk are simple to use and have no known viruses. We cannot usually answer complex telephone queries on the software (see the Disk Problems? box) and we do not accept liability for any consequences of using the numerous programs that are on the disk.

COPYRIGHT

Unless it is specifically stated, the programs on the Coverdisk are not in the Public Domain and the copyright remains with the author of the program.

Because some of the programs on the Coverdisk are not PD, selling or distributing them without the author's specific permission is an infringement of copyright.

Disk not working?

We duplicate nearly half a million disks every month. Out of all of these, obviously a few will be faulty. If the disk or any of the programs will not load or run properly, there may be a problem. Don't panic!

First try using the DiskDoctor utility on your Workbench disk to rescue it before sending it off for a replacement. Full details of DiskDoctor can be found in the user manual that came with your machine.

However, if your Coverdisk is faulty, you should send it back INCLUDING AN SAE for a free replacement within a month of the cover date to:

Amiga Format September Disk
DisCopy Labs
Unit A, Westmarch
London Road
Daventry
Northants
NN11 4SA

Remember to include that stamped, addressed envelope!

MANGA VIDEO

Dedicated to Japanimation!

More amazing adult animation
to seize your imagination!

PROJECT - A-KO

15

TBA

£12.99
SRP

Earth - The not-too distant future.....

A city is miraculously reborn just sixteen years after being completely destroyed by a giant meteor. Our story begins in the prestigious Graviton High School for Girls as the teacher, Miss Ayumi, introduces two new students A-ko and her dizzy sidekick C-ko.

A-ko is a lively seventeen-year-old, no different from any other.... except that within her diminutive frame lies superhuman strength. The trouble begins when B-ko, the spoiled, brilliant daughter of a business tycoon, decides she wants C-ko for herself. And what B-ko wants, B-ko gets. Unless A-ko is standing in the way.

Meanwhile, a monstrous alien spaceship plies its way towards Earth. What is the connection between the girls and the alien ship?



Who is the mysterious "D"? What is the secret behind A-ko's power? What dark past fuels B-ko's rage? Why is C-ko such a space-case? Project A-ko is a witty fast-paced parody that will keep you in stitches.

JOIN THE MANGA CLUB
ABSOLUTELY FREE

Details of the club are contained in all Manga video releases - read all about special offers exclusive to Manga club members.

OTHER MANGA TITLES



"A towering neon nightmare to rival Blade Runner"
NME



The sexy and ruthless cat-sisters, Annapuna and Unipuma have to be seen to be believed



Fists fly, blood spurts, bones shatter, heads explode, and buildings crumble, in an action adventure to compare with the legendary Mad Max



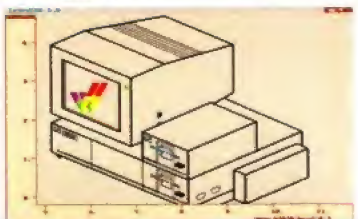
A Division of
Island World Communications Ltd.,

AVAILABLE FROM HMV, VIRGIN, W H SMITH, FORBIDDEN PLANET, AND ALL GOOD VIDEO STOCKISTS

The **AMIGA** Collection

FORMAT

No.6 RRP £60
IntroCAD
 Progressive Peripherals and Software



FULL COMPUTER AIDED DESIGN PROGRAM!
 Intelligent design, you might call it. Create shapes, lines and objects then change and edit them at will to produce complete drawings: it's magic!

● A 500 Plus Compatible ● 1Mb Recommended ●

This is IntroCAD!

Welcome to the world of computer-aided design. If you've never come across a CAD program before, then you might think it's not really the program for you. However **Pat McDonald** will explain why you will soon find it an invaluable piece of software.

COMPUTER AIDED DESIGN, that's what CAD is all about. In the mid Seventies, a lot of people started thinking about how computers could help in design work. The obvious area was new technology. Evermore complicated electronic-circuit diagrams were needed to make ever-more complex computers!

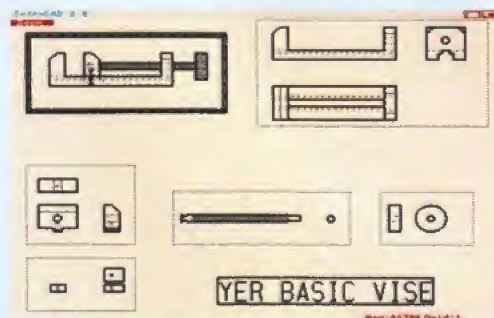
But that was the beginning – today many people in different areas of design use computers to put their ideas on to paper. From shoes to shuttle cocks, everyday items are now born on computer screens rather than a draughting board. Not because it's trendy or fashionable, but because it's actually easier, once you have learned how to use CAD programs.

The real advantage of CAD systems is that you can save commonly used parts of a design (nuts and bolts in engineering; belts and buckles in fashionware; components and links for electronic work) on to disk. Rather than having boxes stuffed with Letraset, you can have commonly used components ready to slot into a design at the point and click of a mouse. And they take up much less space on a floppy disk too!

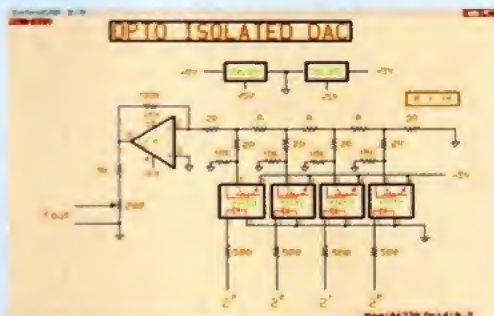
Why can't you just use a paint program like *Deluxe Paint* for this? Paint programs work at the resolutions of the Amiga – when you magnify the screen, all you get is a lot of fuzzy pixels. Printers and plotters can work at much higher resolutions than video displays can – you are lucky to get 50 dots per inch (dpi) on a



CAD is a powerful tool in terms of design illustration – it's a lot easier to appreciate 3D models if you have a view of them. This sort of design is not usually used commercially.



Traditional engineering design relies on very accurate scale drawings of a final design. CAD's ability to present 'zoom' images helps with fine detail.



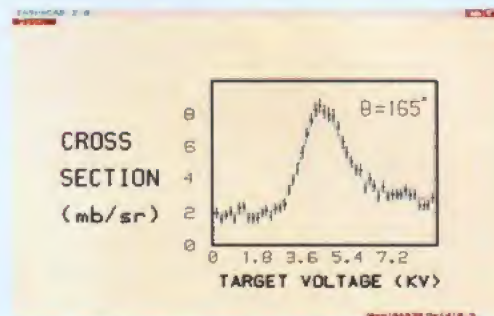
Electronic schematic diagrams are theoretical – they show how circuits should be connected. They don't represent how a piece of gadgetry looks – only how it works.

video screen, but laser printers can print at 300 dpi without any problem. Which means that you can print *Deluxe Paint* images at the size of a postage stamp without losing detail! What's the point of having a really good printer if you can't create images with lots of printed detail, as big as the printer can manage?

That's where CAD programs come in. You can zoom right into a picture, add some detail, and zoom out again. Now you won't be able to see the detail on the computer monitor – but it will appear when you print or plot the drawing.

But before you get carried away with the idea of CAD, a few notes on what *IntroCAD* can't do. Some very expensive CAD programs help with costing out designs – you can type in how much the parts cost, and the program will tot these up for an error-free grand total. *IntroCAD* can't do this, nor does it let you work on one part of a grand design without viewing all the others – the so called 'layer' feature.

IntroCAD is just about drawing and creating, rather than the professional needs of the working designer. But if you've never come across a CAD program before, then this is a fine introduction to the subject – and once you've found your way around one, the pro systems will be a lot easier to master.



Because CAD images are printed at the full resolution of the printer, you can design printed illustration for technical manuals too.

Finally, and most annoying, is that you can't unzoom from a picture. Instead you have to go back to the full view of the whole picture. This is not too bad (*IntroCAD* is pretty fast at redrawing even complex images) but it is a pain at times.

Don't take this program too seriously then. If you have a printer, you will probably be very impressed with the quality of the print out compared to that produced with a paint program. If you have a plotter, then drawings will take longer to produce – but the quality is even better.

IntroCAD is a usable program. You can create illustrations with it, for many different areas of design. It's regrettable that it runs in interlace (see 'Flickery or what?' on the following page for more information).

If you find it indispensable, do let us know. We are especially interested in submissions of clip art for use with the program, which may find themselves on to future Coverdisks if enough interest is shown.

I hope you find the following documentation is comprehensive enough for you. The best way to get to grips with the program is not to pore over the magazine for hours on end – the best way is to load the program and experiment as much as you can. Well, what are you waiting for?

GETTING STARTED

1 The most important thing to do with *IntroCAD* – as with all Coverdisks – is to back it up. Make a copy of it on a blank disk, and use the copy. If you're not sure how to do this, Page 9 has the details.

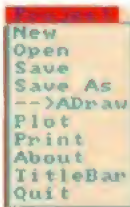
2 Format two blank disks. Call one 'Parts', and the other 'Drawings'. This is for your future work. It's not vital, but it will save grief if you've just finished some work and cannot find a blank disk to save it on to.

3 Switch on your Amiga, insert the *IntroCAD* disk and wait for the Workbench on it to load. Double click with the left mouse button on the disk icon, and again on the *IntroCAD* icon.

4 Work through the tutorial on Page 14, 'Your first design'. This will give you some confidence in using the commonly used tools and gadgets of *IntroCAD*.

5 Play around with the features detailed overleaf, and get a feel for what they do. Most of them will be self evident – but the reference is there for completeness, so feel free to return to it when you don't understand something.

PROJECT



New: clears the current drawing. A warning requester appears to prevent any accidental erasure.

Open: loads a previously saved file from disk. The program will expect the drawing to be in the 'Drawings' directory on the

IntroCAD disk - but you can load and save to wherever you want.

Save: does a save of the whole drawing, using the most recently used file name. Don't use this unless you have already done a 'Save as'.

Save As: saves the whole drawing, but asks you to put in a file name first.

-->ADraw: Save in *Aegis Draw* format. Many programs can load drawings saved in this form, for example *Professional Page*. *IntroCAD* cannot load *Aegis Draw* images.

Plot: output drawing to a plotter. *IntroCAD* will ask you if you want to plot just what is on screen, or the whole drawing. The program will then display a list of the three plotting systems it supports. If you are not sure what your plotter expects, select HPGL (Hewlett Packard Graphics Language) as most plotters use this. Then the plot options appear - see the Printing and Plotting box.

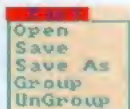
Print: output drawings to a printer.

About: displays a little message about the program's author and publishers.

Titlebar: hide or reveal the titlebar at the top of the screen.

Quit: stops *IntroCAD*. If you have made a change since the last time you saved, the program will ask if you want to save your work first.

PART



Open: loads a part from disk. *IntroCAD* defaults to looking in the Parts directory on the *IntroCAD* disk, but you can load or save them anywhere.

Save: saves the currently selected Part to disk, using the last Part name used. If no Part was selected, the program saves the one that was drawn last.

Save As: first asks for a file name, then saves the currently selected Part. If no Part has been selected, the last Part drawn will be saved (a very common mistake).

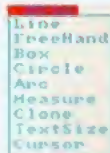
Group: very powerful function this. After this has been selected, the program will prompt you to select individual primitives (lines, boxes, circles - the building blocks) and they will then be joined together into a Part.

Ungroup: used to split a Part up into its separate components. Use with some caution, as it takes a long time to Group them back together again. However, this isn't that important - it's just tedious to keep making Groups.

IntroCAD at a glance

These pages are intended for reference purposes, especially looking up the menu items and what they do. In addition, the quirks of how *IntroCAD* uses the mouse are explained.

DRAW



Line: draw a line from A to B. Your first click is the start point of the line. You can then stretch it to where you want it to end, and click again with the left mouse button.

FreeHand: this lets you draw any shape you like, while you hold down the left mouse button.

Box: click on the screen - that's the corner of the box. Move the mouse and click again - that's the opposite corner of the box.

Circle: these are no problem. Your first click is the centre of the circle - move the mouse to fix the radius, and click again to finally draw it.

Arc: this works in a similar way to the Circle tool, but only draws part of a circle (an Arc). Click once to fix the centre of the arc, and move the mouse

to fix the centre - then click again. Now move the mouse to draw the arc - nothing will actually be fixed until you click the button for the third time.

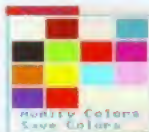
Measure: this doesn't actually draw anything! It feels like you are drawing a Line, but instead the length and angle of the line.

Clone: this will prompt you to select something that you have already drawn. Once you have done this, you can move around the Clone, and click the left mouse button to draw it somewhere else.

TextSize: prompts you to draw a box, which then disappears. The size of the box will be used for the size of all future text - until you select TextSize again.

Cursor: used to position the cursor for typing in text. Always select Cursor before you start typing at the keyboard!

COLORS



Modify Colors: this lets you change any of the 16 colours that the *IntroCAD* program can display, into any of the 4,096 colours of the Amiga's palette.

Save Colors: this saves the current selection of 16 colours on to the *IntroCAD* disk to alter the colours again.

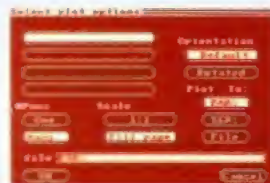
LINETYPE



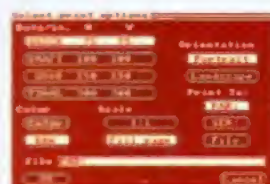
Very simply, this menu option sets the type of line that *IntroCAD* uses for drawing objects. You can have thin lines, dotted lines, dashed lines, and thick lines.

Unfortunately you cannot set the thickness of the line as a measurement, for instance a quarter of an inch. Instead you only have the preset sizes on this menu.

PRINTING AND PLOTTING



The plotter prefs screen: plotters always work at their best.



The printer prefs window: not all printers have all qualities.

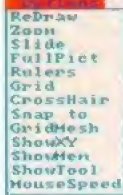
The whole idea behind CAD is that the design doesn't stay on the computer - you print it out or plot it. A plotter, for those unfamiliar with the term, is a mechanised drawing board fitted with at least one pen. By linking it to your Amiga and running *IntroCAD*, it will draw (plot) your design out just like a blueprint.

The first step is to select 'Print' or 'Plot' from the File menu. After that, you will be asked to select a driver. There are many dozens of printer drivers on *IntroCAD* - they only work with this program.

Unless you know which printer type your particular printer can work to, finding the right one is a matter of trial and error. *IntroCAD* only supports three plotter types - of these HPGL (Hewlett Packard Graphics Language) is by far the most common.

After that, an options window is displayed. From here you can select the quality of print (better qualities take longer), where *IntroCAD* should send the print information to (SER: means serial port, PAR: means parallel port) and the scale and orientation of the drawing. In addition, Plotting supports either manual pen changes - the program will ask you to change pens - or automatic. Finally, don't try to run the program with any different printer or plotter drivers - they just won't work. The only drivers which do work with it are what you get on the disk.

OPTIONS



Redraw: this has two sub options, 'Now' and 'Auto'. Now will just redraw the screen then and there – often when you have deleted primitives, the display will be corrupted, and a Redraw is necessary. Auto will make the program redraw every time something is added or taken away – this slows it down horribly, so don't select it unless you have an accelerator.

Zoom: used to dive into a picture. The program will ask you to mark out a box, and the screen will be redrawn at the dimensions of the box.

Slide: a bit difficult to describe, but easy to use. The program will prompt you to draw a line (which will then disappear). The first point of the line is like an arrow head – the screen will slide over in that direction. The length of the line is the amount to slide the screen. Useful when moving around a zoomed-in drawing.

FullPic: redraws the whole design, just fitting it into the display.

Rulers: this is a switch. Selecting it the first time will remove the rulers with the measurements from the left and bottom of the screen. Selecting it again will bring them back. There is a bug in the program which prevents them returning if you have changed the Grid (change the Grid to Plain, and they will return).

Grid: there are six sub-options on this. 'Off' does just that – it turns off the grid. 'Plain' is for a square grid. 'Projection 1' is a pseudo Isometric 30 grid – you can Snap to it without distortion.

'Projection 2' has similar properties, but puts on an Isometric 60 grid. Isometric 30 puts up a grid of 30 degrees – there are problems with snapping to this accurately, as with Isometric 60 (60 degrees to the horizontal).

Crosshair: simply changes the mouse pointer into a crosshair.

Snap To: this selects what destination will be used to snap to. You can either Snap to Grid (which means that future drawing will always intersect with the Grid pattern) or Snap to Drawing, which, if part of an object is close enough, will snap future objects to the nearest point on the object.

GridMesh: this alters the size of the grid in relation to the page. You can't have a grid that is below a certain size.

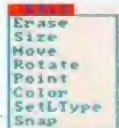
ShowXY: this brings up a display at the bottom of the screen, showing the mouse pointer's present position, its position relative to the last point drawn. Selecting it again removes the display.

ShowMem: brings up a display of the amount of unused memory left to your system. Selecting it again removes the display.

ShowTool: this is set to a default. It displays the currently selected tool at the top left of the screen. Selecting ShowTool once actually removes it! Selecting it again brings it back.

MouseSpeed: this is used to take the mouse up in resolution (make it slower but smoother). Notice that pressing Alt-Full Stop or Alt Comma has the same effect – you can press these with one hand while your other is drawing with the mouse.

EDIT



Erase: prompts you to select a primitive or group, and then deletes it from the drawing. Pressing the Del key will delete the last object that was drawn.

Size: this has two sub options, 'Free' and 'No Distort'. Either will prompt you to select a primitive or group, and you can then grab a corner and shrink or expand the object. Free lets you distort the shape of objects (for instance, turning circles into ellipses) while 'No Distort' keeps the shape of the object intact.

Move: prompts you to select a primitive or group, and then lets you reposition it anywhere you like.

Rotate: has two options, 'Variable' or '90 degrees'. It asks you to select a primitive or group, and then lets you rotate it. The centre of rotation is the centre of an imaginary box which will enclose it.

'Variable' alters the angle of rotation, while '90 Degrees' will flip it through a right angle.

Point: all objects are made up of points joined by lines. 'Point' will prompt you to select a primitive or group, and then a point belonging to it. After that you can reposition the point, to distort the object – cutting a slice out of a circle, for instance.

Color: prompts you to select a primitive or object, and colours it with the selected colour.

SetLType: prompts you to select a primitive or group, and changes it to use the presently selected line type.

Snap: has two sub options, 'Naively' and 'No Distort'. Naively will snap all points of objects you draw from now on are to the destination. No Distort is more useful – for instance, if you wanted to intersect lines on to the edges of a circle.

FLICKERY OR WHAT?

Unless you are running *IntroCAD* on an A3000, you have probably noticed that the screen flickers like mad. This is because it runs in interface graphics mode. There are four ways solutions;

- 1) Rapidly wave your hand in front of your face.
- 2) Wear polaroid sunglasses. This doesn't cut the flicker much, but it does cut down on glare.

3) If you have Workbench 2, 2Mb of chip RAM and a multisync monitor, set Workbench running in interlaced hi-res with 16 colours before running this particular CAD program.

4) Buy a Flicker Free Video card or flicker fixer and multisync monitor. Connect them to your Amiga and *IntroCAD* will be steady as a rock. Your bank balance might not be though.

MOUSE TECHNIQUES

If you've never used a 'serious' program before, you may well get stuck working out how to use the mouse to control the different options. Read on and learn!

MENU SELECT

Press the right mouse button and hold it down. A list of words will appear at the top of the screen – these are the names of different menus. Now move the mouse over the top left-hand side of the screen. Menus of different options will flash past.

Move it back slowly, keeping the right mouse button pressed. As you move over some menu items, they highlight. If you let go, they will be chosen. Others will not highlight straightaway, but will display two or more sub-options – these will highlight, and will be chosen if you let go of the right mouse button. Menu selection is the only time you use the right button like this.

POINT AND CLICK

Select 'Cursor' from the 'Draw' menu. Now move the mouse pointer to somewhere on screen. Click with the left mouse button. Now press a letter or number on the keyboard – it will be put on to the screen at that location. Press the Del key to delete them.

LINE MARK

Select 'Line' from the Draw menu, and move the mouse on the screen. Click the left mouse button and move the mouse – a line should appear from where you clicked to where the pointer is. Click with the left button to draw a line.

EXTREMITY SIZE

Select 'Box' from the 'Draw' menu. Move the mouse close to where you drew the line and click with the left button – move and click again to draw the box. It uses the points that are opposite to each other – drawing circles and making groups use this too.

MULTIPLE CHOICE

Select 'Rotate' from the 'Edit' menu, and 'Variable' from the submenu. Now click near the box you just drew – the mouse pointer will change to the letters 'Y/N' and the box will highlight. Click the left button to select the box.

The right button will highlight the line, and again the pointer will have 'Y/N' on it. Click the left button to select the line. Pressing the right button will abort the whole operation. That's multiple choice – selecting the right object.

Now move the mouse around, and the line or box will rotate around with it. It's a bit like rolling an aircraft while piloting a flight simulator. The 'Arc' function on the Draw menu also uses this type of control.

SELECT AND MOVE

Click near the objects you've been drawing, and select either one. It will disappear and you will have a ghosted outline attached to the mouse pointer. Move the mouse pointer and click with the left button to put it down somewhere else.

The 'Clone' option on the 'Draw' menu works in a very similar manner. Often a 'Move' or 'Clone' will leave the screen in a slightly corrupted state – just select 'Redraw' from the 'Options' menu to restore the screen properly.

The 'Point' option allows you to point and click on any of the points of an object – vertices where lines join together – and edit them.

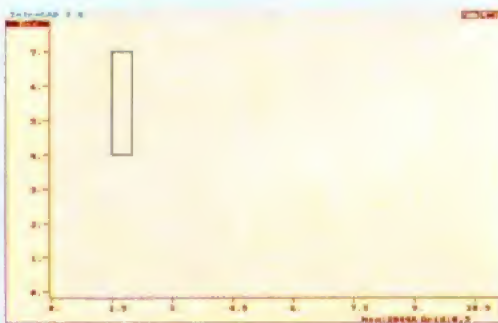
Part 1: find the components

On most drawings there are some repeated elements. On a house you would expect to find more than one window. The best place to start is with some of the elements that are repeated – start small and build up.

On this house, we'll put some Georgian sash windows. These consist of lots of rectangles intersecting to form one big rectangle, with a border surrounding them and a foundation stone at the bottom. Just a lot of boxes really, so the first thing to do is select 'Box' from the 'Draw' menu.

Don't draw anything yet though. These rectangles are going to line next to each other, so it would be wise to put them on top of the grid. So select 'Snap To' from the Options menu, and select 'Grid'. Then select 'GridMesh' from the same menu, and 'Finer' from the submenu. Do this last step twice to get a moderately fine grid.

Now it's time to draw the first box. Click down on the page, and draw out a tall box – do not let go of the left mouse button until you have a tall, thin box. Make it one box wide and six boxes high, to get the proportions right like so:



You could draw three boxes like this, but instead, I'll show you another useful tool. Select 'Clone' from the 'Draw' menu instead. Now click with the left mouse button near the box you have already drawn – *IntroCAD* will ask if this is the correct object to clone.

Press the left mouse button again, and move the copy to the left or right of the present box, then stamp it down with a third click. Repeat this process until you have three tall boxes.



Now it's time to do the cross pieces. Select 'Box' again from the 'Draw' menu, and click on the top-left corner of the little group you have. Then drag out a box that's three grid squares wide and two high.

You've got a choice here. Either draw two more boxes or Clone the one you've just drawn? When faced with the dilemma, the resolution demands how many Clone drawings you have to make, and how easy it is to draw them. In this case, it is quicker to just draw two more boxes – but if you're cloning a complex object like a screw thread, then it makes sense to use Clone instead.

Draw two more boxes like the last one – one beginning two thirds up the left-hand side of the starting

Your first design

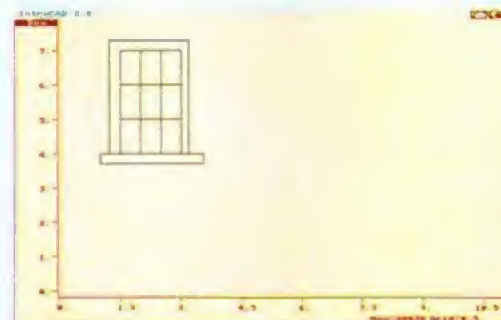
If you've never used a CAD program before, then knowing where to start or what to do is very tricky to work out at first. But fear not, here's a step-by-step guide to using the more common drawing tools to design a simple window on the front of a house.

group, and the other about a third of the way up. You should have a group which form the panes of glass in a window: before we go on, it's probably a good idea to put them together into one object. Select 'Group' from the 'Parts' menu, and click and drag a box around what you have drawn like this:



OK, we have panes of glass but they look pretty silly without a window frame! To draw one in the right proportion though, we'll have to make the grid less attractive. Select 'Snap To' again from the 'Options' menu, and highlight 'Drawing'. Whatever we draw from now on (unless we select 'Snap To' again) will go straight on to the page.

It's time to learn how to tidy up mistakes, so select 'Box' from the draw menu, and draw two more boxes; one around the group you already have, but whose bottom edge is close to it; and another that is wider than the box, but whose top edge is close to the bottom of the window panes:



Doesn't look quite right, does it? It's actually very difficult to perfectly align things at this scale – so first, you'll have to zoom in. Select 'Zoom' from the 'Options' menu, and mark out a box at the bottom left or right of the window (where the boxes overlap). You should be able to see quite a margin of error at this distance. How do you correct it? Simple, just choose the 'Move' option from the 'Edit' menu.

You've now got a choice – 'Free' or 'No Distort'. Normally 'Free' is the preferred option, because you don't have to keep the object the same shape – select 'Free' now.

Only part of the box's outline will appear (because you can see only part of the whole shape. At the corners points will be outlined. Click on one of the ones at

the top. Move the mouse up (away from you) until the top bar of the box aligns with the bottom of the window panes. The line will go purple where the two intersect.

If you cannot see an outlined point ready to click on, select 'Slide' from the 'Options' menu. Click and drag a line, starting away from where you want to move, and the distance you want to go. The line isn't permanent! If you are really lost at this point, select 'Fullpict' from 'Options', and try running over the above step again.

When you have adjusted that particular corner just keep running through the above two paragraphs until you have a window that you are happy with.

Then select 'Group' from the 'Parts' menu, and mark a temporary box around the window. If you want to use your window on future works, select 'Save' from the 'Parts' menu, and enter a name for it. It will then be saved on to the *IntroCAD* disk.

Part 2: Cheat like crazy!

Right, now for the easy bit. Select 'Clone' from the 'Draw' menu, choose the window, and stamp down an even number of copies going off to the right.

You'll probably have to select 'Slide' from 'Options' to move the page so you can then 'Clone' where you want. Select 'Fullpict' from 'Options' after a couple of new windows have appeared, so you can roughly line up further ones using the grid.

After that, do the bottom row of windows. There's absolutely nothing to stop you doing a multistory mansion if that's what you want.

Do remember to leave a space in the middle for a door! By now, you should have a good idea of what to do next. So draw a 'Box' for the outline of a house, and another one for the door.

Part 3: finishing off

I'll leave doing the door to your own artistic temperament. Instead learn about one of the most powerful features of *IntroCAD*.

Draw a box on top of the house – this will serve as the roof, but the edges don't slant! Select 'Point' from the 'Edit' menu. Choose the box you have just drawn, and then move the points on the top corners so that the roof slants inwards. I'll leave the smoke and chimney for you to work out (a hint for the smoke – draw a few circles and distort them into ellipses. You now have a set of smoke rings).

Before you attempt to print or plot your drawing, select it as a 'Group' and then 'Size' it so that it fits on the set of rulers on the screen. Remember, the rulers are measured in inches (2.5cm to the metric).

Before you run away to try and draw lots of different objects, a word of advice. Don't attempt things with lots of curves, unless they're circular. And don't try anything too complicated like a face or a plant – organic things are harder to draw.

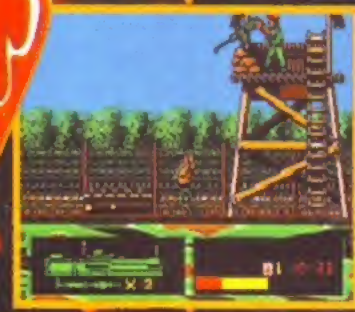
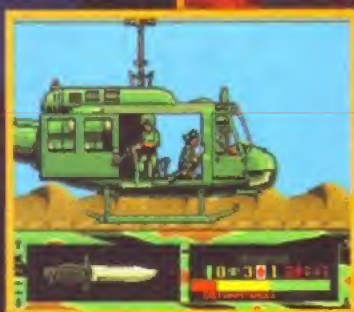
Enjoy discovering the rest!





MISSION:
 ..GO TO LOCAL DEALER..
 ..REQUEST DEMONSTRATION..
 ..GET..
**...FREE...
 ..BADGE..**
 AT PARTICIPATING DEALERS
 RING US FOR DETAILS
 0453 756993

FIRE FORCE



FIREFORCE - Join the ELITE fighting force of the fearless
TWELVE - exciting missions across different TERRAIN
HUGE - choose from a huge ARSENAL of weapons
THRILLING - MK16's, AK47's, grenades, knives and more
MISSIONS - you provide the skill, stamina and REFLEXES

AVAILABLE for AMIGA and ATARI ST
 £25.99

© 1992 INTERNATIONAL COMPUTER ENTERTAINMENT LTD

SCREEN SHOTS MAY VARY

INTERNATIONAL ♦ COMPUTER ♦ ENTERTAINMENT

BRIDGE HOUSE MERRYWALKS STROUD GLOS GL5 1QA

FAX : 0453 756998

TEL : 0453 756993

Over 100,000 people have joined Special Reserve
The club with no obligation to buy
Tel. 0279 600204 for a free COLOUR catalogue

Special Reserve

Games Club



NEW LOW PRICES

CITIZEN SWIFT 9 PRINTER WITH COLOUR KIT. 9 PIN, 80 COLUMN, 192CPS/48NLQ, 3NLQ/1 DRAFT FONT, 24 MTH WARRANTY. A 9 PIN PRINTER WITH COLOUR FACILITY AND FULL PAPER HANDLING FUNCTIONS. FREE SPECIAL RESERVE MEMBERSHIP, FREE PRINTER LEAD
FREE COLOUR KIT184.99

CITIZEN 120D+ PRINTER. 9 PIN, 80 COLUMN, 144 CPS/25NLQ, 2NLQ/1 DRAFT FONT, 24 MTH WARRANTY. HIGH QUALITY MONO PRINTER. FREE SPECIAL RESERVE MEMBERSHIP, FREE PRINTER LEAD129.99

CITIZEN 224 24 PIN PRINTER WITH COLOUR KIT. 80 COLUMN, 192CPS/64LQ, 3LQ/1 DRAFT FONT, 24 MTH WARRANTY. 24 PIN LETTER QUALITY PRINTER WITH EXCELLENT GRAPHICS (360X360 DPI). FREE SPECIAL RESERVE MEMBERSHIP, FREE PRINTER LEAD
FREE COLOUR KIT224.99

CITIZEN SWIFT 24E PRINTER WITH COLOUR KIT. 24 PIN, 80 COLUMN, 216CPS/72LQ, 6LQ/1 DRAFT FONT, 24 MTH WARRANTY. ADVANCED VERSION OF 224 WITH HIGHER SPEED, MORE FONTS AND SPECIAL LCD CONTROL PANEL. FREE SPECIAL RESERVE MEMBERSHIP, FREE PRINTER LEAD
FREE COLOUR KIT274.99

STAR LC20 PRINTER. 9 PIN, 80 COLUMN, 180 CPS/45NLQ, 4NLQ/1 DRAFT FONT, 12 MONTH WARRANTY
FREE SPECIAL RESERVE MEMBERSHIP, FREE PRINTER LEAD144.99

STAR LC200 COLOUR PRINTER. 9 PIN, 80 COLUMN, 180CPS/45NLQ, 4NLQ/1 DRAFT FONT, 12 MONTH WARRANTY.
FREE SPECIAL RESERVE MEMBERSHIP, FREE PRINTER LEAD199.99

STAR LC24-20 24 PIN PRINTER. 80 COLUMN, 192CPS/64LQ, 5LQ/1 DRAFT FONT, 12 MTH WARRANTY. 24 PIN QUALITY AT 9 PIN PRICE.
FREE SPECIAL RESERVE MEMBERSHIP, FREE PRINTER LEAD204.99

RIBBON FOR STAR LC206.99 RIBBON FOR SWIFT 9 OR 120D+6.99
RIBBON FOR STAR LC2006.99 RIBBON FOR SWIFT 24 OR 2246.99
RIBBON FOR STAR LC24-206.99 RIBBON (COLOUR) FOR SWIFTS15.99
RIBBON (COLOUR) FOR LC20010.99

DUST COVER FOR 80 COLUMN PRINTER (CLEAR PVC)5.99
PRINTER LEAD (PARALLEL) FOR AMIGA, ST OR PC7.99
PRINTER STAND (2 PIECE, FITS ANY PRINTER)7.99



PHILIPS CM8833 MK 2
COLOUR STEREO MONITOR FOR AMIGA OR ATARI ST. ONE YEARS ON-SITE MAINTENANCE INCLUDED. OFFICIAL UK VERSION.
FREE F19 STEALTH FREE MEMBERSHIP
207.99

TV TUNER FOR PHILIPS CM8833 MKII MONITOR ONLY (TURNS THE MONITOR INTO A TV)44.99
MONITOR LEAD - AMIGA TO PHILIPS CM8833 II7.99



PHILIPS 3332 15" FST
COLOUR TELEVISION MONITOR FOR AMIGA WITH REMOTE CONTROL, AUTO PROGRAMMING AND TWO YEAR WARRANTY (ALSO FOR MEGADRIVE OR SUPER NES). FREE SCART LEAD (STATE AMIGA) FREE MEMBERSHIP
214.99

SCART LEAD - AMIGA TO TV WITH SCART INPUT (GIVES MONITOR QUALITY PICTURE)9.99



GOLDSTAR 14"
TELEVISION MONITOR WITH REMOTE CONTROL AND SCART INPUT FOR AMIGA (ALSO FOR MEGADRIVE OR SUPER NES). FREE SCART LEAD AMIGA TO GOLDSTAR FREE MEMBERSHIP
159.99

DUST COVER FOR MONITOR (CLEAR PVC)GG11885.99



Game Gear

WITH SONIC THE HEDGEHOG SEGA MAINS ADAPTOR
FREE SUPER MONACO GRAND PRIX
FREE SPECIAL RESERVE MEMBERSHIP
129.99

Nintendo Super NES

+ CONTROLLER AND SUPER MARIO WORLD
FREE SECOND CONTROLLER & STEREO LEAD
FREE NINTENDO MARIO GAME & WATCH
FREE SPECIAL RESERVE MEMBERSHIP
FREE £5.00 REPLAY VOUCHER

SPECIAL RESERVE REPLAY VOUCHER WORTH £5 AND FREE MEMBERSHIP WORTH £6.99 WITH ANY SUPER NES GAME

SUPER NES GAMES

ADDAMS FAMILY42.99
F-ZERO37.99
FINAL FIGHT50.49
JOE & MAC - CAVEMAN NINJA47.99
LEMMINGS50.49
PAPERBOY 237.99
SUPER CASTLEVANIA 444.49
SUPER R-TYPE37.99
SUPER SOCCER37.99
SUPER TENNIS37.99
UN SQUADRON50.49

GVP HD8+ 52 MEGABYTE
AMIGA HARD DRIVE (SERIES II) WITH EXPANSION SLOTS TO UPGRADE AMIGA RAM TO 8 MEG
359.99

GVP 2x1 MEG AMIGA RAM EXPANSION
(SIMMS FIT IN GVP HARD DRIVE TO EXPAND AMIGA BY 2 MEG OR 4 MEG RAM)
89.99



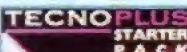
COMMODORE A590 20 MEG HARD DRIVE FOR AMIGA
(AUTOBOOT WITH KICKSTART, SOCKETS FOR 2 MEG OF RAM, SCSI INTERFACE FOR PERIPHERALS CONNECTION)289.99



1 MEGABYTE AMIGA RAM UPGRADE (TO 2 MEG) FOR A500 PLUS34.99
A501 (WITH BART) AMIGA 512K RAM EXPANSION GENUINE ITEM WITH CLOCK FREE BART SIMPSON GAME44.99



512K AMIGA RAM WITH CLOCK24.99
512K AMIGA RAM NO CLOCK22.99



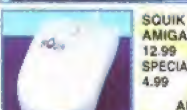
EXTERNAL 3.5" DISK DRIVE FOR AMIGA WITH SONY/CITIZEN DRIVE MECHANISM. QUIET, HIGH QUALITY, SLIM.54.99



TECNOPLUS REPLACEMENT AMIGA POWER SUPPLY (THE 4.5 AMP OUTPUT ALSO ENABLES AMIGAS TO RUN PERIPHERALS EFFICIENTLY)34.99



TECNOPLUS AMIGA STARTER PACK (AMOS, PRINCE OF PERSIA, QUICKSHOT 131 JOYSTICK, DUST COVER, MOUSE PAD, FILE-A-DISK RECORD SYSTEM, DISK CLEANER, 5 BLANK DISKS)37.99



CLEANING KIT FOR COMPUTERS (INCLUDES VACUUM)19.99



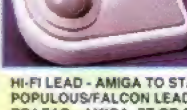
NAKSHA AMIGA/ST MOUSE WITH OPERATION STEALTH24.99



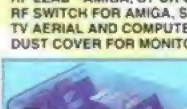
SQUIK MOUSE FOR AMIGA OR ST12.99
SPECIAL RESERVE MOUSE MAT4.99



AMIGA SOUND ENHANCER (BOOSTS SOUND)35.99



SCREENBEAT STEREO SPEAKERS FOR AMIGA OR PC. REQUIRE 4AA BATTERIES OR MAINS ADAPTOR. DESIGNED SPECIFICALLY FOR COMPUTERS INCLUDING MOUNTINGS FOR ATTACHMENT TO MONITOR.19.99



MAINS ADAPTOR FOR SCREENBEAT SPEAKERS7.99



TECHNO SOUND TURBO SOUND SAMPLER FOR AMIGA INCLUDES LEAD FOR ATTACHMENT TO WALKMANDISCAM26.99



TECNOPLUS MIDI CONNECTOR AND CABLES FOR AMIGA WITH MUSIC X JUNIOR39.99



DAATA SCAN PRO HAND SCANNER FOR AMIGA119.99



ZYDEC TRACKBALL FOR AMIGA OR ST27.99



HI-FI LEAD - AMIGA TO STANDARD PHONO INPUT3.99
POPULOUS/FALCON LEAD (NULL MODEM CABLE)7.99
RF LEAD - AMIGA, ST OR CONSOLE TO TELEVISION3.99



RF SWITCH FOR AMIGA, ST OR CONSOLE (SWITCH BETWEEN TV AERIAL AND COMPUTER WITHOUT DISCONNECTING)4.99
DUST COVER FOR MONITOR (CLEAR PVC)5.99

DELUXE DISK BOX 3.5" (80), LOCKABLE, DIVIDERS10.99

BANX DISK BOX 3.5" (80) STACKABLE9.99



DISK BOX 3.5" (10 CAPACITY)1.99
DISK BOX 3.5" (40 CAPACITY) LOCKABLE, DIVIDERS7.99
DISK BOX 3.5" (80 CAPACITY) LOCKABLE, DIVIDERS8.99
DISK BOX 3.5" (100 CAPACITY) LOCKABLE, DIVIDERS9.99
3.5" DISK HEAD CLEANER4.99

3.5" DSDO JVC DISK WITH LABEL69p Each
PACK OF 50 JVC 3.5" DSDO DISKS WITH LABELS22.99



JVC
3.5" DS/DD DISK WITH LABEL
69p each or
22.99 for 50

0279 600204

Open to 8pm Weekdays and to 5pm Weekends

ANNUAL MEMBERSHIP
UK £6.99 EEC £8.99 WORLD £10.99

We only supply members but you can order as you join.

The Special Reserve full colour club magazine **NRG** is sent to all members bi-monthly. **NRG** features full reviews of new games plus mini-reviews, all the gen on new products, the Special Reserve charts, Release Schedule of new games and hundreds of special offers.



PLUS - EVERY ISSUE CONTAINS £30 worth of money-off coupons to save even more money off our amazing prices.

We sell games and accessories, all at amazing prices, for Megadrive, Master System, Game Gear, Super NES, Gameboy, NES, Lynx, Amiga, Atari ST, IBM PC, CDTV and IBM CD ROM.

Best Service, Best Prices, Biggest Selection
That's why over 100,000 people have joined Special Reserve.

NEW AMIGA 600 329.99



FULLY INCLUSIVE OF MEMBERSHIP, VAT, DELIVERY & WARRANTY

NEW AMIGA 600 DELUXE PAINT 3, MYSTERY GAME DISK,

BUILT-IN TV MODULATOR, 1 MEG RAM EXPANDABLE TO 2 MEG, 12 MONTHS IN-HOME SERVICE GUARANTEE. FREE SPECIAL RESERVE MEMBERSHIP

AMIGA 600 HD 439.99

INTERNAL 20 MEG HARD DRIVE BUILT-IN TV MODULATOR, 1 MEG RAM, 12 MONTHS IN-HOME SERVICE GUARANTEE. FREE SPECIAL RESERVE MEMBERSHIP

HARDWARE PRICES INCLUDE VAT AND DELIVERY TO UK MAINLAND

Inter-Mediate Ltd. Registered Office: 2 South Block, The Mallings, Sawbridgeworth, Herts CM21 9PG.
INEVITABLY, SOME GAMES MAY NOT YET BE RELEASED. PLEASE PHONE SALES ON 0279 600204 FOR LATEST RELEASE DATES AND STOCK AVAILABILITY.

WE ONLY SUPPLY MEMBERS BUT YOU CAN ORDER AS YOU JOIN. THERE IS A SURCHARGE OF 50p PER GAME ON TELEPHONED ORDERS (PLEASE PRINT IN BLOCK CAPITALS)

AMFORM 22

Name _____
Address _____
Postcode _____
Telephone _____ Machine type _____

Enter membership number (if applicable) or Membership £6.99 UK, £8.99 EEC, £10.99 World

Item _____
Item _____
Item _____
Item _____

ALL PRICES INCLUDE UK POSTAGE & VAT £

Cheque/P.O./Access/Mastercard/Switch/Visa Switch Issue No. _____

Credit card expiry date _____ Signature _____

Cheques payable to: **SPECIAL RESERVE**
P.O. BOX 847, HARLOW, CM21 9PH
Overseas Orders: EEC software orders - no extra charge
World software orders please add £1.00 per item.
Non-software items please add 10% EEC or 25% World.
Overseas orders must be paid by credit card.



ASHCOM

DESIGN & DEVELOPMENTS LIMITED



PRESENTS
MAC II
BACK-UP
FOR ONLY



£34.95

INC. VAT & P&P

THE MOST POWERFUL SOFTWARE BACKUP SYSTEM EVER PRODUCED FOR THE A500/A500 PLUS
THERE IS NO SOFTWARE YET PRODUCED THAT CANNOT BE BACKED UP USING THE MAC II SYSTEM

FEATURES:

- The most comprehensive back-up utility ever!
- Menu driven options which make it easy to use
- backs up other formats: IBM, Atari etc.
- Quick and easy to install (second drive required)
- Also available for A1500/A2000

ORDER MACII BACK-UP NOW AND YOU WILL NEVER HAVE TO PURCHASE ANOTHER BACK-UP UTILITY AGAIN

ADDAX - ADDHARD

THE ULTIMATE RAM EXPANSION AMIGA A500/A500PLUS

COMPLETE HARD DRIVE SYSTEM FOR THE AMIGA A500/A500PLUS

FEATURES

- EXTERNAL FITTING
- JUST PLUGS IN!!!
- AUTO-CONFIGURE FOR 2Mb-4Mb-8Mb
- BUS THROUGH PORT
- ULTRA LOW POWER
- NO EXT PSU REQUIRED
- FULLY BUFFERED ADDR AND DATA BUS
- ZERO WAIT STATES
- GURU FREE!!!
- SLIMLINE CASE
- STYLED TO THE AMIGA
- HIGH DENSITY DRAM
- LATEST TECHNOLOGY
- ALLOWS CREATION OF LARGE & FAST RAM DISKS

WILL NOT INVALIDATE COMMODORE WARRANTY

JUST PLUG IN & AWAY YOU GO!
- SIMPLE! -

FREE COPY OF SOFT-KICK, SWITCH BETWEEN 1.3/2.04 WITH EVERY ADDAX



OUTSTANDING FEATURES

- VERY HIGH SPEED
- SMALL SLIMLINE UNIT
- VERY LOW NOISE
- NO EXT PSU REQUIRED
- BUS THROUGH PORT
- AUTOBOOT 1.3/2.04
- COLOUR MATCHED
- STYLED TO THE AMIGA
- FACTORY SET
- EASY TO INSTALL!!
- EASY TO USE!!
- WILL NOT INVALIDATE WARRANTY

HIGH QUALITY LOW PRICES!

AX502	2MB	EXP	£115
AX504	4MB	EXP	£169
AX508	8MB	EXP	£279
AX508U	0MB		£79

AX508 RANGE - EASY TO UPGRADE - USES 1MEG*4 ZIP's

TAKE YOUR A500 PLUS UP TO 2MB DESIGNED FOR THE AMIGA A500+ £39

1.3/2.04 ROM SHARER - ONLY £17.00

KICKSTART ROM 1.3 £34.94 2.04 CALL

AUTOMATIC MOUSE/ JOYSTICK SWITCHER £12.95 NEW



HIGH QUALITY STEREO SAMPLER - FOR THE AMIGA WORKS WITH ALL KNOWN SAMPLING SOFTWARE INCLUDES FULL DISK OF SAMPLING SOFTWARE!

£19

ADDHARD45 45MB £265

ADDHARD105 105MB £395

ALL HARD DRIVES ARE INC OF VAT & NEXT DAY COURIER

AMIGA A500 1/2 MEG UPGRADE

WITH CLOCK £21 NO CLOCK £19

APRIL AMIGA FORMAT: "BEST BUY - HIGH QUALITY LOW PRICE"

Only from ASHCOM, DEPT AF7, 10 The Green, Ashby-De-La-Zouch, Leicestershire LE6 5JU

MON-FRI 9.00-5.30

Telephone: (0530) 411485 (24hrs) Fax: (0530) 414433

SAT 9.30-4.00

STOP PRESS A600 1 Meg Ram Expansion Clock £49.00

NEWS ROUND

Hot on the trail of all the new Amiga releases...

EASY DTP UPGRADE

Summer's always a quiet time for new software releases, but there's at least two biggies just out from Stateside DTP experts Gold Disk. Development work that was put on the back burner while all hands worked on their DTP heavyweight *Professional Page 3* has now been completed, resulting in a new version of their structured drawing program, *Professional Draw 3*, and a vastly-improved update of their entry-level DTP system in the form of *PageSetter 3*.

Details of the new *PageSetter* are still a little vague, but we hear that it will include a complete paint package as well as the word processing and layout features of the DTP system, which should once again make it the obvious choice for anyone starting to explore DTP.

UPDATE FOR ARTISTS

By contrast, Gold Disk have released full details of *Professional Draw 3*, which makes full use of the 'Automated Genies' macro system introduced in *Pro Page 3*. It now also lets you type text straight onto the page and has greatly improved colour-handling features.

Both programs are available from distributors HB Marketing (0753 686000) and Silica (081-309 1111), while the new distributor Meridian (081-543 3500) are offering 10 free Type One scalable fonts when you purchase either package, or Soft Logik's superb *PageStream 3*.

HIGH-END CAD

Life has been kicked into the dead CAD market this month with the arrival of the two new versions of X-CAD. This powerful 3D design and modelling package comes in a home user's version, *X-CAD 2000*, and a professional version called *X-CAD 3000*. Meridian (081-543 3500) are offering upgrades to owners of the earlier *X-CAD Designer* and *X-CAD 3D* at the reduced prices of £99.95 for *X-CAD 2000* and £299 for *X-CAD 3000*.

BIG MAC AND CHIPS

The excellent A-MAX II Plus Macintosh emulator (reviewed this issue, Page 128) is also available from Meridian (081-543 3500) at £499 including those vital Mac ROM chips: although the official distributor are Entertainment International (0268 541126).

EMULATION SENSATION

Another remarkable emulator is on the way in the form of Emplant, a hardware
Continued overleaf

After months of waiting, the add-on that can turn your A500 into a CDTV is here

A570 CD-ROM drive goes on sale at £349

The A570 CD-ROM drive goes on sale this month around the country for £349. Production stocks of the so-called 'CDTV interface' are now residing in Commodore's warehouse, all set to shift.

Asked how many Commodore expect to sell, Commodore UK MD Kelly Sumner said, "You could say anything from 10,000 to 50,000 in the first six months, up to Christmas. I would say that we would confidently expect to sell in the 20,000 to 30,000 region."

"It isn't just a CD machine, it's an expansion for hard disk and memory too. This is really designed for the 1.3 owners and there's something like 500-600,000 of them, so if only 10 per cent upgrade that's 60,000. It's not the product for 1.2 owners. It's 1.3 minimum and 1Mb of fast RAM. So the 1.2 owner is best to trade in for the CDTV."

The CDTV trade-in announced last month means that A500 owners can get £200 off £599 'Home Multimedia Pack' - a CDTV with keyboard and disk drive. As for when the A670 CD-ROM drive for the Amiga 600 will appear, Kelly Sumner says, "I would be disappointed if we didn't see it pre-Christmas. The hard work is done: all we have to do now is change the edge connector for a PC bus connector."

A familiar sight on our news pages. The only other product that's had as big a build up as the A570 was Epic. Let's hope that's the only similarity.



Commodore's new boss opens up

Kelly Sumner, new MD of Commodore UK, has begun a new regime by talking frankly about new developments for the Amiga. In a full interview on Pages 30-31 of this issue, he reveals why Commodore are so committed to the idea of the CD Amiga, what plans there are for a cut in the price of the Amiga 600 and what the next new Amiga release will be. Turn the pages now to read all about it in our exclusive interview.

The World of Commodore show is replaced this November by an exciting new computer leisure show with much more on offer for Amiga owners...

Amiga Format backs big new show

Last year *Amiga Format* sponsored and organised the World of Commodore Show, the biggest show Amiga owners have ever enjoyed in this country. This year, we are linking up with our sister magazines from Future Publishing to present an even bigger and better event.

The Future Entertainment Show takes place at Earls Court in London from Thursday November 5 to Sunday November 8. Major exhibitors will include Commodore themselves, software houses such as Gremlin, EA and Psygnosis and the most significant makers of Amiga hardware and software from around the world.

There will also be lots of special events going on at the Show, which is expected to be the biggest computer show for five years. Gameplayers will take part in the finals of a



Last year's World of Commodore Show: this year, FES!

The Future Entertainment Show

massive competition with a £10,000 first prize, with regional heats across the country in October leading up to the big day. Details of how to enter follow next month. The Show will also be televised in the new computer-games programme from Yorkshire TV that starts this autumn.

While it will retain a strong Amiga core, the Future Entertainment Show will cover all formats of computer and games console, so it should be an event for all the family. We'll bring you more details of the Amiga companies who will be attending in our next issue.

As games start to be taken seriously, game producers are using money-raising techniques previously only seen in the movies. Clare Hodgson investigates...

Product placement: the ad cash rolls in

As the curtain falls on the latest blockbuster movie and the hero walks into the sunset, chances are in the background there's a huge neon sign advertising Coca-Cola. Don't imagine for one minute that this is just realistic scenery, or mere coincidence: it's called product placement, it's a form of advertising that brings in absolutely millions of dollars for the movie companies, and it is supported by companies specifically employed to sell 'space' in the films we watch.

An example: in *Terminator*, our hero Kyle Rees steals a pair of trainers from a store. For minutes afterwards, we keep getting shots of his feet as he creeps around, and clearly visible full-on, centre screen, is the Nike logo on the stolen trainers.

Product placement is now creeping into video games. It first cropped up in Millennium's *James Pond 2: Robocod*, where Penguin bars formed a part of the scenery. McVities, makers of Penguin, are keen to be identified with the computer-games scene and now sponsor the official ELSPA charts.

The latest game-to-product tie-in is a complicated affair. Ocean's puzzle game *Push-Over* (see Page 84) features



Left: *Robocod*, the game that set the agenda for products in games with its Penguin bars.

Right: *Push-Over*, as seen on TV and featuring Curly Colin of Quavers fame in a £2m deal.

that the most popular computer among schoolchildren was the Amiga; hence the tie-in. Smiths are taking advantage of what they call 'pester power': if kids know they want something, their parents are probably going to give in and buy it for them. Who paid who for what is a little vague, but £2 million in total has changed hands in the three-way promotion deal.

As game-players are increasingly being targeted by mainstream advertisers, one thing is for certain: we're going to see a lot more of this kind of tie-in. Don't be surprised if you find that Level 40 of *Lemmings 2* is composed entirely of Tunno's Caramel Wafers...

Quavers cartoon character Colin Curly in its intro sequence. Commodore are also involved in this cross-promotion, which involves the game and the Amiga 600 featuring in Smiths Crisps' latest TV ads for Quavers, and a competition to win an A600 on Quavers packets.

Janet Allen-Rodgers, for Smiths Crisps, explains "our research showed that kids' number one interest is computers and playing games." Further investigation revealed

system that the manufacturers claim can be adapted to emulate any kind of machine with the addition of the right ROM chips and software. It works on any kind of Amiga, too. The first emulation available is a Mac system, which costs between £165 and £205 depending on what options you wish to include. Mega ST and IBM AT versions are planned to follow. Full details from distributor Blitsoft on 0908 666265.

A600 SHOCKER!

It actually comes as a bit of a shock that Commodore are the first to get out an expansion for the A600, in the form of the A601 1Mb RAM expansion. By next month we're certain there will be a host of rivals for it from the many third party developers, so expect a range of A600 expansions to be reviewed in these pages in October's issue.

FIRE DELAY DISASTER

Bad news, on the other hand, from US hardware supremos Progressive Peripherals and Software, who make the extraordinary 68040 accelerator card for the A500. It was due to be reviewed in our 'Super A500s' feature this month, but PP&S's HQ was burnt to the ground in a fire that took most of a city block with it. All stock and much development work has been lost.

SUPPORT YOUR ANIMATOR

Amiga animation enthusiasts should take a look at the *Amigator* newsletter produced by American animfan Gerry Paquette. It's full of ideas and explorations of techniques and costs \$15 for a year's subscription (six issues) from Amigator, PO Box 26026, Nepean, Ontario, Canada K2H 9R0.

STAR TREKKING

Anyone who has seen the fabulous animations on the theme of Star Trek by Tobias Richter cannot fail to be interested in the video 'Space Wars' that Tobias has just recorded, with music by Norwegian Amiga fan Bjorn A Lynne. If you'd like a copy, rush a cheque for £12 (UK money) payable to Bjorn A Lynne at Schleppegrrellsgt. 10, 0556 Oslo, Norway.

CHEAP HELP

National Amiga user group ICPUG is offering part-year subscriptions for the first time, presumably so users can try membership out and see if they like it. The six-month subscription, covering three issues of the group's weighty journal, costs £10 while a four-month sub is £7. Details from ICPUG chairman John Bickerstaff on 081 651 5436.

AMIGA MUSIC ON CD

If you want to find out what you can do with an Amiga 1500, some sequencing software and a keyboard, try the latest CD from Worldbeat Music. It's intended as production music for film and video and is available for £65 with a complete licence, but musician Paul Blyth is offering it to Amiga fans who'd like a listen for £10.50, including P&P. Worldbeat Music, Bridgend House, Lasswade, Edinburgh EH18 1NA.

M-PEG makes CD video a reality

At long last, the Motion Picture Expert Group has set the standard for full-motion video (FMV). This not only opens the way for full-screen video in CDTV titles, but also means we will be able to buy videos on compact disc in the near future.

It's probably the most important thing to happen to the electronics industry since the arrival of Compact Discs. MPEG is a joint 'expert group' of electronics scientists set up and funded by the electronics industry to establish a viable standard for digital video. The fruit of their labours is a standard chip set for compressing and then decompressing digital video data, so that it can be loaded sufficiently quickly from compact disc.

This chip set is now available to all manufacturers to include in their designs. Philips have already announced that they will be providing an MPEG chip add-on for their CDI multimedia system, and that it will be able to play digital videos. Commodore are expected to announce that CDTV will also gain MPEG power very soon.



The American publishers of the *Art Department Professional Image* processing software are offering Amiga programmers a development kit at a price of \$200 which will enable them to make full use of the *AdPro* libraries and use the *AdPro* loader/operator system. If you're a developer who is interested, contact ASDG on 0101 608 273 6585.



Amiga design courses from the experts

The London College of Printing is one of the top places in the country to learn about design, and over the summer they are offering courses to learn about all aspects of computer graphics, working on Amiga systems. The courses run on various dates from August 17th to September 18th, cost between £165 and £295 and cover subjects including interactive multimedia, image processing and presentation graphics. If you're interested, get in touch immediately with the Short Courses Secretary on 071 793 0077.

So you wanna be a rock-and-roll star?

It's not often we get record labels asking us to request readers' demo tapes, but Delirious Records make their own music on the Amiga and are looking for other emerging talent to sign to their new label. Their latest EP 'Thrill Seekers - The Blitz' was produced on a 1Mb A500 using *ProTracker*. The sort of stuff they are looking for is the ubiquitous hardcore dance: if you've got something you think is good enough to make the playlists then send it to the A&R Department, Delirious Records, 8 Harvey Road, Dunstable, BEDS LU6 2AL. The boyz promise to listen to every tape sent, but they can't return any...



If you've got a tape, these guys want to hear from you...

Damien Noonan gives his own highly biased views about the state of the Amiga: this month, are computers taking the place of pop music in 'yoof culture'?

Long live rock-n-roll

IT'S A SIGN of the times. Next month, we will announce that *Amiga Format's* officially audited average circulation has reached around 160,000 copies a month: more or less the same as the best-selling music magazine, *Q*.

The national newspapers and the music press are full of speculation that pop music may be dead, that computer games have taken over as the cult medium of the Nineties. Roll over Prince and Madonna: Mario, Sonic and the Lemmings are here.

Andy Smith, once games editor of *Amiga Format* and now Editor of console magazine *Sega Power*, has been invited to speak to a conference of music-industry bigwigs later this year. The subject? Have computer games taken over from pop music as the main youth culture of the decade?

An article by Barry Hugill in the *Observer* of July 19 assesses the scale of the crisis. As Channel 4's *Gamesmaster* TV series plans an autumn return, *Top of the Pops* faces the axe. And the Top 40 chart is to go.

"Radio One confirmed it is to compile a chart based on what listeners request," reports the *Observer*. "In the Sixties and Seventies the charts mattered. Discs had to sell a quarter of a million to stand any chance of a place, but today a mere 10,000 sale can guarantee a top spot." Whereas a hit computer game can sell 20 to 50,000 copies on the Amiga alone. "Young people are more into computer games and television than listening to records," suggests David Gedge, singer with the Wedding Present.

Walk into one of the big retail stores in the high street, and you'll see the physical evidence. Record sections are shrinking while computer games and software sections are getting ever-more prominent.

So pop music is dead. People are more interested in watching the telly and playing computer games. Is this good news for us, or not?

We've been promised that when computer games start to sell in major quantities, when they are seen as a major leisure occupation, that prices will fall as sales rise. It's a free market.

What worries me is that they won't. Games are selling in quantities large enough for the software companies to make fat, healthy, bouncing profits. The games consoles are keeping sales high, and the cartridge is cutting the piracy drain. But we're still paying, and the excuse now is piracy.

Yet there's one sign of hope: the attitude of Commodore to CD. They could just be right this time...

Philips continue to push best-selling games monitor with offer for Amiga owners

Free Lotus with monitor

The Philips CM8833/II is the best-selling monitor for the Amiga, so it tends to be first and most obvious choice anyway when people are looking at buying a monitor. Last year, though, Philips discovered the benefits of a closer and more specific tie-in with Amiga game-players when they gave away a copy of the MicroProse flight simulator F-19 Stealth Fighter with every monitor purchased.

This year they are repeating the offer. Starting in September, special packs (identified by an enormous blue sticker on the box) will contain a free copy of the Gremlin game Lotus Turbo Challenge 2. It seems sure to be a successful choice, because it's a more accessible and easily enjoyable type of game than the more techie flight sim. And it's a darned good game, too.



A free Lotus game with Philips monitors.

Buyers of the monitor will also be able to enter a competition, in which they could win a VIP visit to next year's British Grand Prix, arriving in style by helicopter. Runner-up prizes of radio-controlled Ferraris are also on offer.

The promotion works in Philips' favour not only because it attracts Amiga gamers to their monitor but also because it ensures that people buy the official UK monitor pack. So-called 'grey imports' - stock intended for sale in another country, re-imported to the UK and sold at a lower price - do not include the free game and Philips will not provide technical support for grey-import models.

The recommended retail price of the CM8833/II is £229, but it is more common to see it on sale for £189-£199.

Citizen release new 24-pin dot matrix range that they think will be best-seller

Printer aims for top spot

Citizen have launched a new range of Swift 24-pin printers with the avowed intent of making it the top-selling machine of its type, rather than the third place the manufacturer currently holds. "We believe this range includes all the features offered by every one of our competitors, and more" said a Citizen spokesman at the launch.

The new Swift range consists of three machines: the basic 200, the 240 with more fonts and the 240C which comes as standard with colour included. All the models are robust and compact and have been designed for minimum noise. They all have two extras: an 'auto-set' mode



The new Citizen range of Swift 24-pin dot matrix printers majors on quiet speed.

that switches to emulations according to the data sent by the computer, and a 'quarter printing' facility that produces reduced, tiled pages suitable for use in a personal organiser.

Citizen have also introduced a new kind of clear film, suitable for printing in a dot-matrix machine to produce OHP transparencies, which could be widely used in presentations as well as for fun.

Features on the new Swift range are, as ever, too numerous to list in this space but we will be taking a closer look at the machines in next month's printer buyer's guide.

Citizen Europe Ltd 0753 584111

CDTV titles update



Domark's *Triv Pursuit*: two discs of the most important CDTV title yet.

CDI projects and spent masses more money than has the average CDTV developer, to ensure high quality. Public reaction has shown that the investment in quality has paid off.

The 'first generation' of CDTV titles, on the other hand, has generally been disappointing. Less money has been spent on development and the 'last 10 per cent' of quality has been missing. However, some of the 'second generation' titles, of which much more is expected, are on the way soon.

CDTV *Trivial Pursuit*, put together by games developers Domark, could be one of the most important. The game that started the triv quiz craze is jazzed up by the

"Where Philips got it right and Commodore went wrong," one CD pundit suggested to *Amiga Format* the other day, "was pouring money into the early titles." We hear that Philips have 100

per cent funded early CDI projects and spent masses more money than has the average CDTV developer, to ensure high quality. Public reaction has shown that the investment in quality has paid off.

The 'first generation' of CDTV titles, on the other hand, has generally been disappointing. Less money has been spent on development and the 'last 10 per cent' of quality has been missing. However, some of the 'second generation' titles, of which much more is expected, are on the way soon.

CDTV *Trivial Pursuit*, put together by games developers Domark, could be one of the most important. The game that started the triv quiz craze is jazzed up by the

addition of animation and graphics, but remains essentially the same otherwise. It's the sort of big name association from which CDTV will benefit greatly.

Many people don't realise that Commodore US, under the name CDTV Publishing, publish the vast majority of CDTV titles. This means they get to check them all before release, so if the quality isn't up to scratch then Commodore are very much to blame.

Currently awaiting the Commodore stamp of approval is Virgin's *North Polar Expedition*, an interactive record of Sir Ranulph Fiennes' trip to the pole of a couple of years ago. It's widely said to be the most impressive multimedia experience yet to emerge, so we look forward to seeing it soon. Also being given the once-over is *Musicolor*, Virgin's innovative music teaching disc.

One thing CDI can't compete with CDTV on is simple arcade games, and there's two new ones out this month. Empire have CDTVed their action tank sim *Team Yankee* as a straight port of the Amiga version, while the first CDTV title ever to be developed in Holland is a collection of three gambling game sims under the title *Casino Games*, offering poker, one-armed bandits and roulette.



**Get
your
head
round
this!**



**F
I
V
E**





The Future Entertainment Show



Quids in

Get smart. Getting on for 100,000 people are expected to attend the

Future Entertainment Show.

You know what that means: Queue City. So avoid all the foot-shuffling, hanging-around-for-ages start to the Show by booking your tickets early.

And you'll even **save money!** Bit of a barg, really. Do it now, otherwise you'll only forget and then regret it later when you're really cold and – (Snip! - Ed)

YES I would like to have my tickets early, avoid all the queues and save £1.05 on every ticket, please.

Adults £5.95, Under 14s £3.95.

Call the credit card hotline on **051-356 5085**

or fill out the coupon on the right!

Imagine no more.

We've got 'em all at the

Future Entertainment Show.

Miss it and have nagging doubts for the rest of your life...

What's what

When? November 5-8, 9.30am-5pm (4pm Sunday)

Where? Earls Court, heart of London

What? Sega, Nintendo, Amiga, PC, ST games

How much? £7 adults, £5 Under 14s (but see Quids In bit)

Why? Just why not?

Tickets

AF/09

I would like to order advance tickets for the Future Entertainment Show and save £1.05 per ticket.

Please send me _____ adult tickets at £5.95 each

Please send me _____ under-14 tickets at £3.95

Total Payment £ _____

Method of payment _____ Visa

Please make all cheques

payable to: _____ Access

FUTURE ENTERTAINMENT SHOW Cheque

PO

Card number _____

Expiry Date _____

Name _____

Address _____

Post code _____

Send this form to: FUTURE ENTERTAINMENT SHOW
PO Box 2, Ellesmere Port, South Wirral, L65 3EA

It's going to be MASSIVE!!!!!!



Live with Dream!



Just imagine...

- Latest, hardest, hottest games!
 - Gob-smackingly enormous games arcades!
 - Giant video walls!
 - Cheap games by the thousands!
 - TV broadcasts, live radio!
 - Competitions, rides, virtual reality!
 - Amiga, PC, ST, Sega, Nintendo – the lot!
- And some serious noise!



VIRTUAL REALITY UPDATE



Incentive's Paul Gregory ponders over the new changes to 3DCK2.



Check out the coverdisk, where you'll find a playable demo.

Incentive will soon be releasing *3D Construction Kit 2* through Domark. Originally titled *Creation*, that monicker has been dropped to avoid causing confusion over what the product is.

3D Construction Kit 2 is a game-design system. It helps you to create 3D adventures, that were pioneered by Incentive some years ago under the title *Freescape*. *Freescape* lets you wander around a landscape, changing your view as you go to create a real world to explore, rather than the more standard 'flat' views of arcade games.

Additions to the original *Kit* are mostly geared towards hiding the fact that games were written with an editor, rather than using machine code. So now you can use your own fonts within a game, your own soundtrack, and change the mouse pointer and border which surrounds the 3D view.

Other new features are; a built-in sound editor, to tweak samples to their prime; transparent and translucent objects, which can fade at the blast of a laser; a video-recorder mode, to include little animated strips within a game; print any screen or save it to an IFF file; and new object shapes including spheres and 'flexicubes'. The latter start life as ordinary cubes, but can be squashed and distorted into different shapes, so removing some of the original's 'square and blocky' look.

A much-improved scripting language has also been included to help with the game logic and control. As a bonus, hundreds of predesigned objects have been included to help get you started on your own games. *3D Construction Kit 2* will sell for £49.95, and has been scheduled for release in mid September. Domark 081-780-2222.

POOL - IS IT WORTH MAKING A DIVE FOR?



Okay, so it looks like *Jimmy White's Whirlwind Snooker*, but it plays like *Pool*.

Archer MacLean is back in programming mode once again, having enjoyed a long rest after his mammoth two-year stretch working on *Jimmy White's Whirlwind Snooker*. He's been taking a fresh look at the *JWWS* program code and is busily changing and tweaking it for his latest game, *Pool*.

Pool is the next release coming from Virgin Games, and it's due in September (if Archer has finished it in time). It features the full eight and nine ball rules, (just like the Americans use) plus the normal pub-game rules which we're probably a bit more familiar with.

Archer's also been toying with a few more crazy-ball effects, for those moments when you're spending too much time planning your shots. He's currently dreaming them in his sleep and programming them in when he wakes up! He's also created 20 different computer players, each with a different skill and playing style, so that even the toughest and wimplest players can play against someone of similar stature. For groups of players, there's a new tournament mode where everyone can compete together.

Due to be finished at the end of August, *Pool* should be on the shelves during the later part of September. We'll bring you the full review in next month's *Amiga Format*.

Games News

What's going down in the Amiga games-world while you're playing around with the latest offerings? We take a quick peek into the future, as Neil Jackson does a knock-and-run on all the software house doors...



Delphine's *Flashback*; another hit for US Gold?



If Mansell doesn't win, it'll be due to gremlins.

US Gold

They're getting ready for the big push on Delphine's new *Flashback*. This sexy-looking follow-up to *Another World* is due out in November. Meanwhile the Goldies are tying up the loose ends on their *Mega Sports* compilation (£25.99) which features some of the best games from the old Epyx range.



Is bandwagon-jumping a new Olympic event?

Ocean

Like those chaps at US Gold, the chaps at Ocean are currently tinkering with their Olympic-sized sports tie-in, *Espana: The Games* (£25.99). It features a wealth of Olympic-related stuff, like training, doctors, medals and presumably drug-screening too. As we go to press we've just received our review copy, so we'll bring you the complete review in next month's *Amiga Format*.

Gremlin

These guys are real busy beavers, with a whole host of stuff in the pipeline. The first thing we'll see is the add-on disk for *Utopia*, called *The New Worlds* (£14.99). In late September, it'll be time for *Lotus 3 - The Final Challenge* (£25.99), touted as the definitive racing game. It's got a special track editor system which works with code-words, so you'll never need another race-game again (or so Gremlin say). *Zool* (£25.99) is currently being held over until October, because Gremlin don't reckon it will sell too well during the summer months - they think everyone will be out playing frisbee, rather than playing on their Amigas!

In November there are three Gremlin games planned: *Nigel Mansell's World Championship Challenge* (£25.99) which, not surprisingly, is another racing game (Hang on! I thought they said...) featuring potential champagne of the world, our Nige. Next is *Hero Quest 2* (£25.99) and, last but not least, *Daemongate* (£34.99) their new role-player.

Electronic Arts

They're putting the pressure on those poor Bullfrog chaps, to get them to finish the add-on we've all been waiting for: *Populous II: The Challenge Games* (£14.99). Due very soon, it features *Populous II* scenarios set in ancient Japan, as races-against-the-clock.



Budget News

Here's the latest news on what's lined up for release this September in the Cheap 'n' Cheerful department. We'll bring you full reviews as soon as we've managed to save up the dosh to go down the market and buy them.

Action 16 Supreme (Digital Integration) Spectrum Holobyte's *Falcon* (£14.99)

Falcon Mission Disks: *Operation Counterstrike* *Operation Firefight* (£9.99)

Action 16 Premier (Digital Integration) *Operation Combat* (£9.99) Alternative Software *Sooty & Sweep* (£7.99) *Popeye to the Rescue* (£7.99)

Kixx (US Gold) *Panza Kick Boxing* (£7.99)

Codemasters *Captain Dynamo* (£7.99) *Grell & Fella* (£7.99)

DJ Puff's *Volcanic Caper* (ETBA) *Seymour's Wild West* (ETBA) *Soccer Pinball* (£7.99)

GBH Gold (Gremlin) *Shoot-em-up Construction Kit* (£9.99)

GBH (Gremlin) *Krisalis' Boxing Manager* (£7.99) *Jahangir Khan's World Championship Squash* (£7.99)

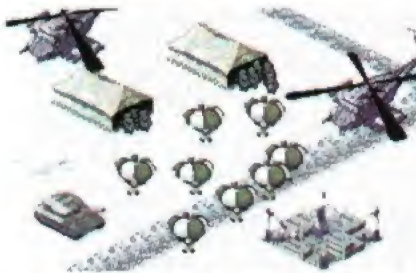
Team 17 *Alien Breed Re-mix* (ETBA)



That's no way to park a car, even in the outlands.

Mindscape

Hidden away at Mindscape, you'll find three exciting-looking titles getting their final tweaks and polishes. *Battle Toads*, a kind of *Turtles*-inspired beat-em-up (with loads-a-merchandising tie-ins to come) is due in September or October, while (most promisingly) we may see *Wing Commander* – the mega space adventure which wowed PC-owners a while ago – coming to Amiga screens in October. Best of the bunch looks to be *Outlander*, a crazy *Mad Max*-style road racing game - with plenty of car-crunching action.



What Geneva Convention? Rookies don't care.

Virgin

Two hot-looking titles soon to reach us from the Branson empire are *Rookies*: a crazy action war-game where you make the rules and (slightly behind the times) a Soviet-inspired game of intrigue, *KGB*. Both of these games should be with us for the October issue.



It's blue, blobby and gets stuck up kid's noses.

System 3

Remember Silly Putty, the stuff you could bend, snap and peel off news-print with? Well, System 3 have brought this gook to life in their latest project of the same name. Due in September, they reckon their arcade-style platform game will do for the A600 what Sonic the Hedgehog and the Mario Bros did for the console. We'll see...

Vivid Image

Those *First Samurai* lads are just getting ready to start the real work on the sequel, unsurprisingly named *The Second Samurai*. It's due to hit the shelves in time for Christmas, but Vivid Image are still searching for a publisher.



Let's go hangar-busting in the new Tornado.

Digital Integration

Still busy with their new flight-sim, *Tornado*, due for release in October. They're also handling the UK distribution of Coktel Vision's *Fascination* (£29.99) and Linel's *The Game of Life* and *Traders* due for the autumn.

Psygnosis

Working on *Beast III: Out of the Shadow* (£25.99) for September, as well as *Armour-Geddon II* (£25.99) and *Cytron* (£25.99) for October and *Tomatoes* (£25.99) in November.

Mirage

They've just picked up the unfinished Electronic Zoo title, *Prophecy* (£29.99) and are getting ready to release it any day now. Still no sign of *Humans*, yet, but we're told it's almost ready...



Blimey! Who'd you rather take down the pub?

Loricel

They've got a saucy looking Christmas title waiting for the finishing touches. Called *Entity*, it features an extremely well-endowed lady in a strange fantasy beat-em-up.



The way to stop trench-foot is to go over the top.

Blue Byte

They're busy drawing up their *History Line 1914-18*, a reworking of the Format Gold-rated *Battle Isles* game in WW1 fashion. Due out in September, *History Line 1914-18* features the kind of ammunition and armaments which made the Somme such a horrible place to be. We'll bring you the low-down on the game just as soon as the artillery's stopped.

Top 30 Amiga Full Price Games Chart



1(3)	▲	Sensible Soccer Renegade/Mindscape/Sensible Software	FG91%
2(2)	■	Monkey Island 2 US Gold/Lucasfilm	FG95%
3(3)	■	Striker Rage Software	FG93%
4(-)	New	Lure of the Temptress virgin/Revolution	FG92%
5(16)	▲	Fire and Ice Renegade/Mindscape	89%
6(9)	▲	Formula One Grand Prix MicroProse	FG92%
7(1)	▼	Epic Ocean	34%
8(15)	▲	Championship Manager Domark	41%
9(29)	▲	Graham Taylor's Soccer Challenge Kosmos	82%
10(18)	▲	The Addams Family Ocean	78%
11(4)	▼	Jaguar XJ220 Core Design	79%
12(-)	New	Dune virgin	79%
13(-)	New	European Football Championship Domark	Review next issue!
14(-)	New	Civilization MicroProse	FG94%
15(7)	▼	The Manager US Gold/Software 2000	79%
16(10)	▼	John Madden American Football Electronic Arts	FG94%
17(11)	▼	Eye of the Beholder 2 US Gold/SSI	FG91%
18(-)	New	Push-Over Ocean	86%
19(19)	■	PGA Tour+ Electronic Arts	Compilation
20(13)	▼	Jimmy White's Whirlwind Snooker virgin	FG91%
21(8)	▼	Project X Team 17	75%
22(-)	New	Myth System 3	58%
23(-)	Re-entry	Alien Breed Team 17	74%
24(-)	New	World Series Cricket Soundware International	61%
25(-)	New	Hook Ocean	58%
26(30)	▲	James Pond 2: Robocod Millenium	FG91%
27(25)	▼	Birds of Prey Electronic Arts	88%
28(-)	New	Paperboy 2 Mindscape	Review next issue!
29(9)	▼	Dizzy's Excellent Adventures Code Masters	Compilation
30(12)	▼	Space Crusade Gremm Graphics	82%

As Philips' CDTV-beating CDI system goes on sale, it seems the biggest fight Philips face is against ignorance, not against Commodore...

Game on for Philips CDI



Philips CDI – no longer in competition, but facing a battle for recognition in its own right.

Philips have finally launched CDI, their CDTV competitor, in this country. It's been on sale in the US for over a year now, though Philips say no sales figures are available from which to judge how well it's doing. Philips are similarly reluctant to speculate on how well CDI will do in the UK.

Like CDTV it's a new idea, so buyers have to be shown what it can do before they even know they might want one. Philips are attracting customers to demonstrations of CDI by offering them entry to a £1,000 competition.

Philips are encouraged by research figures that show 10 per cent of adult males already know what



This is one of the first CDI titles, a kids' adventure playground based around Sesame Street. It's great!

CDI is. Gina Jones of Philips' PR company says that they expect the first CDI buyers to be "classic early adopters, in their thirties with a high disposable income." She points out that 50 per cent of people who have bought CDI didn't ask for a demonstration first.

CDI is a dedicated hardware system based around the same 68000 chip as the Amiga, with software loaded from compact disc – it has better resolution and more colours for the graphic display than CDTV. It costs £599 and buyers get a voucher for £50 worth of software – titles cost between £14.95 and £39.95.

A lot of effort and money has gone into ensuring the first discs for CDI ooze quality. Favourite exam-



War against piracy gets serious

FAST, the Federation against Software Theft, has just appointed its first full-time expert to help its battle against piracy. An Ipswich pirate has just been sentenced to 180 hours' community service and fined £200 after being found guilty of distributing cracked software on bulletin boards. "Be assured," declare FAST, "stories such as this will appear with increasing regularity as the big guns hit their targets." FAST phone 0628 660377

ples are *Sesame Street*, an explorative educational storybook for kids that's packed with good ideas, and a photography tutor that lets you set up a pretend camera and shows you what sort of results you would get.

Journalists who have compared the two systems come down in favour of CDI. Philips, however, are giving the impression that the two are not in direct competition and that the marketplace is big enough for both. "We don't like to think they are competing because they are not the same system," says Gina Jones for Philips, who can see the way in which CDTV is being 'repositioned' as an Amiga accessory.

Indeed, the major fight is shared by both: to get the idea of home multimedia across to the Great British public. The method most likely to succeed is the 'take control of your telly' angle that both Philips and Commodore's advertising has reflected. The key to this making sense to punters could be the full-motion video standard just announced (see Page 20), which finally makes interactive video a reality.

How it works: CDTV multimedia

Optonica are about to launch what could be the best CDTV title yet to appear. And that's just the start. Damien Noonan went along to see how they do it.

"Our advantage is that we have programmers as well as production people," says Lee Gibson, founder of Optonica. Developing for CD is a meeting of two worlds, the coding skills of programmers and the production skills of video and film makers, but all too often the two mix like oil and water.

Optonica are about to release what could be the best CDTV disc to date. *Insight: Technology* has been seven man-years in production and is the first in a planned series of 'how it works' illustrated books. "We've tried to remember that people will want to read it the same way they would a book," says Lee, explaining their approach.

What sets *Insight: Technology* apart is the use of graphics. Three artists at Optonica slaved over Deluxe Paint to produce high-quality illustrations. Each of the 200-plus 'topics' on the disc has photographic as well as Amiga-generated pictures and some also have CDXL video clips. All are accompanied by a narrative explanation as well as text.

Quality of the results can be put down to a vast amount of experience - Optonica have been working in multimedia presentations for years and produced the first CDTV demo for Commodore's launch two years ago -



Amigas run Optonica's authoring system.

but also to a lot of thought about how multimedia should work. But perhaps of even more significance is the solid programming background.

Optonica's groundwork has been thorough. They have developed a complete suite of libraries that has allowed them to develop a collection of programming tools customised to suit the needs of CDTV developers. And the good news is that they are to make them commercially available.

"Eventually we hope to make it a multi-platform development system, to cover CDI and PC CD-ROM too," says Lee. "But for now we're consolidating what we've got and we're keeping an eye on the other systems."

Probably the most exciting tools is Videostream. This is a new automated way of producing CDXL quarter-screen video sequences. In fact, the end



Insight: Technology on CDTV in action.

result is Optonica's own version of CDXL called VAXL.

Videostream controls a professional video deck. It lets you construct sequences of video frames as a rough, editing as you go along. The Amiga can then be left to grab the sequence frame by frame, interleaving samples of audio so that the soundtrack never goes out of sync. It's a clever, polished and simple system that would be invaluable to a CDTV producer and it is due to go on sale soon.

Optonica are also still selling their Simpatica system, which is in some ways the mirror image of Videostream. It also controls a SMPTE video deck, which lets you batch record animations and Amiga-produced graphics frame by frame straight on to videotape. It's not cheap at £1,000, but the quality is unrivalled.

Videostream is to be followed by Interplay, which is essentially a suite of programs containing all the applications a team would need to produce a multimedia presentation on the Amiga. "It replaces lots of little learning curves with one slightly larger one," says Lee, pointing out that all the programs share a common interface.

Programs include a supremely good file manager system that lets you display or execute any kind of file - animations, pictures, sound samples, runnable programs - as well as doing lots more besides. There's a multimedia database which is ideal for storing the masses of information that a multimedia production requires.

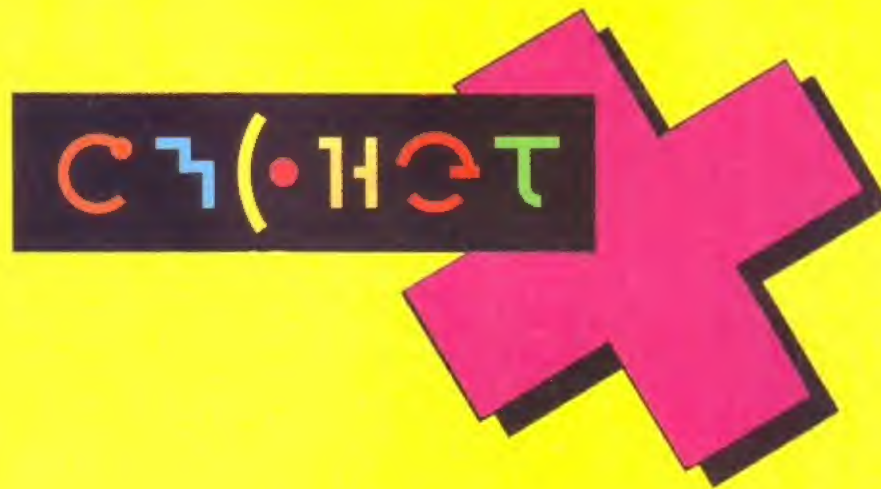
"We've tried to include everything you would need while leaving out all the frills that no-one will touch," Lee points out, "and we use the programs ourselves. Our production people aren't told what they can and can't use, but they choose to use our own." Interplay will cost around £2,000 but it really is the all-in-one answer: we'll take a closer look at it soon.

There's more on the way from Optonica, too: we're particularly looking forward to their Pandora's Box CDTV demo, which will cost only a fiver yet as well as examples of their multimedia productions and a sample of their *Insight: Technology* title also contains hundreds of examples of clip-art. Businesses can get it free if they just send a business card. Full details follow next month.

Optonica 0455 558282

X-BACKUP PROFESSIONAL

**The essential package for all your BACK-UP needs!
Now includes HARD DISK BACKUP & FILE BACKUP.**



★The most comprehensive back up utility ★includes floppy disk backup, hard disk backup and file backup. ★Also backs up ST, IBM etc disks. ★Checks disks for errors. ★Optimises data for faster loading. ★Fast formatting. ★Copies up to 4 disks in 48 seconds. ★Full update service available.

AVAILABLE NOW ONLY £39.99 PLUS £1.00 POSTAGE AND PACKING

1988 COPYRIGHT ACT. Siren Software neither condones nor authorises the use of its software for the reproduction of copyrighted software. The facilities offered by X-BACKUP Pro are intended to back up users own software, PD Software & other such programs where permission had been given. It is illegal to make copies of copyrighted material without the permission of the copyright holder.

X-BACKUP PROFESSIONAL IS THE BEST, GUARANTEED
OUR GUARANTEE:- At time of purchase, if you can find a program that is more powerful than X-BACKUP PRO we will refund your money.

Ordering X-BACKUP PROFESSIONAL

Access/Visa orders can be placed by telephoning 061 724 7572. For mail order, fill in the order form and send with a cheque or postal order to:
Siren Software, Wilton House, Bury Rd., Radcliffe,

Name

Address.....

.....

.....

.....

Manchester M26 9UR.



WHEN THE CHANNEL 4 television programme *GamesMaster* starts its new series this autumn, you'll see Kelly Sumner playing a game and probably not doing very well at it. He confesses it's not his greatest strength, "but I think it's important for kids to see that a young guy like me is where he is."

At the tender age of 31, Kelly is the head honcho at Commodore UK. "I joined Commodore on June 11 1979 because they were then offering training as an electronics engineer," reflects Kelly. "I was a bench engineer on a line. Most of our business, though, was calculators, watches and chess games, things like that."

"When the Vic 20 came along, I was sole engineer on that. When the 64 came along, the same. But don't give me one to repair now!"

After four years on the service and repair end, a switch into sales and marketing followed, then a new machine called the Amiga 1000 came along and, by sheer chance, Kelly found a place on the Amiga sales team. "It was tough, very tough. I can't say it was the most successful product ever. Selling for about £1,500 as a single drive and £1,700 with two floppies. But, hey, it was a heck of a machine. We probably sold about 14,000 in a year."

The following year the A500 was launched and Kelly moved up through the new retail division, finally becoming sales manager about a year before he was appointed managing director.

"Three years ago I was just a sales person in the company and either I've been very lucky or I've stabbed a lot of people in the back along the way!" he jests.

"Basically I've got where I am through two things: hard work and common sense. I'm certainly not the best educated person academically. In fact, if truth be told, I've only got CSEs."

Is it significant that the new boss comes from the leisure side of the company, the side where the Amiga dominates? "Commodore have always been in mass-merchant consumer electronics. We will never, ever be an IBM. What we're very good at is producing cost-effective kit and selling it in large volumes, and that basically means consumer products. The core of the company is retail."

But what of the Amiga? It's been a time of change lately, with the demise of the A500 and the introduction of its controversial replacement, the A600, but how does Kelly feel the Amiga 'got where it is today'?

"As my predecessor would say, it had the 'Wow!' factor. Graphically and soundwise it was years ahead of its time. Then the quality and depth of support, whether it be software or hardware, made it a hit with the techno people, and then they started saying

The man who made the Amiga, and the man who will make it even greater. Steve Franklin (front) is off to a new role in CDTV, so Kelly Sumner (back) takes over at Commodore UK.



Straight from the horse's

Kelly Sumner is the brand-new boss of Commodore UK, the company behind the Amiga. **Damien Noonan** went to Commodore HQ and found a new atmosphere of open discussion, which means he came back with some important issues and some exciting news...

WHY CD IS SO IMPORTANT TO COMMODORE

The big issue of the moment is piracy. The software houses who make the games lose a lot of money to piracy, so they want to move out of disk-based software. It's been suggested that this move could kill the Amiga. How are Commodore reacting? Is the future in cartridges for the PC bus?

"If these guys don't make money, they aren't going to produce software, so our Amiga base isn't going to have all these weird and wonderful games to play. But I'm not sure that cartridge is the way to go. We've been speaking to nearly all the major software houses over the last month or two, and I think CD has to be the way to go." But why?

"If you look at the price of a Sega or Nintendo cartridge, it's very expensive. Any cartridge is always going to be more expensive, and also it has a longer lead time. You can press a CD in 48 hours, but a ROM cartridge takes three months. And there are lots of implications as far as cashflow in companies is concerned.

"I'm not saying people won't bring out games on cartridges, but CD is the way we'd like to steer it. We would like to have inexpensive software, and the only way you are going to do that is by having a relatively inexpensive format and to be able to sell mass, so that means CD with

no piracy. Disk software could sell cheaper, but they're not willing to do that because of piracy. Cartridges can't be sold any cheaper.

"Our ambition is to make it viable for software houses to sell quality software at £20 or below. We would like to get nearer the music CD price. A CD, to press, with a case, with an inlay, is a couple of pounds. Put that against a cartridge which costs maybe ten pounds. And quite frankly, you're limited in what you can do with a cartridge. Some of the stuff we've got coming out for CDTV at Christmas, you'd have to have a £300-£400 cartridge."

But if CD is to succeed, we'll need to see new games released on it. Is that going to happen? "There's not a lot of people producing games at the moment anyway, because it's summer, but I think that over the next six months you will see that happening from most of the major software houses, I can't say all of them, but most of them."

"And I think probably after Christmas you will see product coming out on CD and not coming out on floppy disk. Because there will be enough CDs there to make it worth their while. And if you asked me to prophesy, I'd say the floppy disk market will be dead inside three years."



mouth

how wonderful this machine was and it started being bought by the masses.

"It's on such a roll now, it will be very hard to stop. We're selling in excess of 300,000 Amigas every year now, to dedicated people who are spending three or four times as much as people buying a Sega or Nintendo, and they've got a very good rationale for doing that. The Amiga effectively grows with them. The machine is so open, you can do what you like with it."

How long can the Amiga last? "Over the last year or two we've been getting the range right by bringing in new chip sets, new machines, new technologies, and that's just the start. There's no reason why the Amiga should ever stop. You may not see it in the base format, as the 500 or 600, but who knows what we're going to have in 10 years' time?"

But will A500 owners be left behind? "The whole idea of the Amiga is to have a product that is graphically and soundwise better than its competition, but is compatible backwards. If we bring out an Amiga 9000 tomorrow, a guy with A500 software should be able to run it. You don't want to throw away everything you've collected."

The times they are a changin' and the A600 is the biggest change to date. Was it designed for the European market? "There are two types of development. You have a chip development, which is led by the Americans. They're the guys who suss out the base of the machine. Then they come along to European meetings, and they say, 'We've got this wonderful chip set: what do we need to build around it? What memory, what interfaces, what kind of casework', and so on, then it gets put together. Something like 85 per cent of Commodore's business is done in Europe, so it would be wrong not to listen to what Europe has to say."

How's the A600 been greeted by the public? "There's always turbulent waters when you have a change, especially something like the A500 which was loved by literally millions, but the sales certainly show that the 600 is picking up and accelerating through the summer, which is something you don't often see." Since launch, 65,000 A600s have been sold.

"In real terms, the 600 offers people everything, and in time will offer them more than the 500 ever did. Look at things like surface-mount technology, and people say 'That doesn't mean a lot to me,' but it does if the machine goes faulty on them. I got the reports of the first three months of failures. Now, at a conservative figure the 500 range was probably 8.5 per cent failure rate. The 600 at the moment is running at less than one per cent. Not only that, but even if it goes wrong you don't have the hassle of sending it back. That has got to be a leap forward."

Then there's the removal of the edge connector (the DMA bus) and its replacement by the PCMCIA bus, the 'credit card slot'. "Obviously times change. The PC bus is now the standard, and increasingly will be the standard, for expansion on a number of different machines, not just the Amiga."

"Our idea is, if you buy the 600 and you want a hard disk, you get it on a PC slot, the size of a credit card, 20 megabyte, 40 megabyte, 60 megabyte, whatever you like, plug it in, there's your hard drive. You don't have to open up the machine, you don't have to bolt on this big, expensive device. And if you want to go down to your mate's and play games off the hard disk, or use utilities off the hard disk, that's all you need, the card. You can just put it in your top pocket and away you go."

"Prices at the moment aren't particularly competitive - like anything on introduction people think they can get more for it than it's actually worth - but you are going to see prices fall quite dramatically over the next three or four months' time."

"Anything that can be done on the DMA bus I am told can be done on the PC bus, so if you take any of the third-party peripherals, they can be done on the PC bus, there is no doubt about that. When we launch the A670, that will be proved. Amiga users will have a much wider range, in time, and a much more cost-effective range."

Commodore are heavily committed to CD as the medium of the future (see panel, left). But the growth of the CD format will be reliant on Amiga owners buying A570s, which have finally gone

“We will keep with tradition and have an offering for Christmas. Previously we've been very licence-orientated. The way we're looking at it at the moment is on the quality of the software, not necessarily licences.”

into full production and on sale in this country at £349. "It isn't just a CD machine, it's an expansion for hard disk and memory too." But how will it sell. "You could say anything from 10,000 to 50,000 in the first six months, up to Christmas. I would say that we would confidently expect to sell in the 20,000 to 30,000 region."

"This is really designed for the 1.3 owners and there's something like 500-600,000 of them, so if only 10 per cent upgrade that's 60,000. It's not the product for 1.2 owners. It's 1.3 minimum and 1 meg of fast RAM. So the 1.2 owner is best to trade in for the CDTV." Will Kelly guess when the A670 for the Amiga 600 will appear? "I would be disappointed if we didn't see it just before Christmas."

Aren't CDTV titles off-puttingly expensive, though? "Yes. We will introduce a range in the not too distant future. I would suggest starting at about £9.99. We will also have a budget range. But the big ones are still going to be 35 quid or whatever, because the developer has to make money back. CDTV titles are expensive to develop. Some of the older titles will find their way to £9.99 very quickly."

The Amiga 600 is cheaper to make and more reliable, so does this mean there is room for a price cut? "We've got to look at it in a number of ways. Without being silly, there is no competitor in this market. Which suggests that we should keep the price as it is. But if we altered the price we may gain more sales,

knocking some out of the consoles, some out of the PC area.

"It's something that we're considering all the time, on any product, whether it's priced effectively or not. But you've got to release a product and realise what the actual cost is before you make any dramatic changes. It isn't just about selling product: it's maintaining it in the field that is a huge expense and all that kind of stuff."


"I'm not about to say that the A600 will always remain at £399, but the question is whether tomorrow is the time to move. But certainly, one of the reasons behind the A600 and its surface mount was to be able to move with the market if we had to."

"If we were going to make any moves, to make any difference in sales it would be pre-October. If someone's sitting there saying 'I'm going to buy an Amiga this Christmas' and it doesn't really matter if it's October or even later, then I would wait till October."

Will there be a new A600 pack this year, like the A500 Cartoon Classics of last year? "We will keep with tradition and have an offering for Christmas. Previously we've been very licence-oriented. The way we're looking at it at the moment is on the quality of the software, not necessarily licences."

Have Commodore considered a Sonic or Mario character for the Amiga? "Yes. There are a number of options we're looking at that lend themselves to that kind of exposure. But it won't necessarily be at Christmas, it may be a little bit after. We have looked at product that we can hang our hat on and say 'that is a quality product' and not just today, but as the development of the Amiga progresses we can upgrade the software to show the new qualities of what we're trying to bring to the market very, very easily. So if we were to launch an Amiga 5000, something could come out on the 5000 at launch and they could say, 'Wow! Yeah, I can understand that!'"

So, what of new machines? "An Amiga chip set takes much longer to develop than any other chip set. We have a group of people, and all they do all day long is refine and develop the chip sets, until it gets to a stage where we need one. We're continually doing that."

"I think it's best to talk about a new machine when it's factual. We're certainly going to release new machines in time. But I can tell you one thing. There will be a new high-range Amiga in the September-October timeframe, there's no question about that. Higher than the A3000. We've just repositioned the A3000, because we think it was specced up too high. We've effectively halved the price. And there will be a number of new machines in the next year to 18 months or so." 

NEW!! VIDI AMIGA 12

Replacing the famous Complete Colour Solution, this new package is even better value!!!

The ultimate low cost colour digitiser. No filters or RGB splitter required. Colour images can be captured in less than a second, mono images are grabbed in real time. Fully compatible with any video source.

Includes multitasking software, cut & paste with masking, multiframe store with animated playback, composite or s-video input, 4096 HAM support and many more advanced features.

only £79.99

We recommend all ROMBO products

TAKE 2

This is latest animation package for the Amiga from Rombo. Features include load and save from D. Paint animations and IFF files. Supports HAM graphics.

only £44.99

MEGAMIX MASTER

This is a low cost 8 bit, high spec. sampler that plugs into your printer port. Special effects include echo that can be added in real time, fully multitasking and easy to use.

only £29.99

DISK DRIVES

LIMITED OFFER

New Roclite 3.5"

The new super slim Roclite has recently received the best review for disk drives in Amiga Format.

only £57.99

Cumana 3.5"

1 meg external drive. The best name in disc drives now at a super low price. Still the most reliable.

now only £53.99

Music X JUNIOR

This excellent midi music package is crazy price!! RRP £49.99

only £12.99 NEW!!

- Aegis Sonix.....£39.99
- Amiga Logo programming for kids.....£19.99
- Amiga Vision.....£39.99
- Amos Creator.....£34.99
- Amos Compiler.....£22.99
- Amos 3D.....£27.99
- Art Department Pro 2.1.....only £99.99
- Audio Engineer.....£169.99
- Audio Master version 4.....£39.99
- Audio Sculpture.....£29.99
- Broadcast Titler.....only £149.99
- CrossDos.....£19.99
- Deluxe Music Construction Set.....£54.99
- Deluxe Paint 2.....now only £4.99
- Deluxe Paint 3.....now only £12.99
- Deluxe Paint 4.....now only £57.99
- DEVPAC 3.....£57.99
- Deluxe Print 2.....£9.99
- Distant Suns new version!!.....£34.99
- Easy AMOS.....£24.99
- EXPERT DRAW.....ONLY £49.99
- EXPERT 4D JR.....ONLY £37.99
- Flexidump printer utility.....£31.99
- GB Route Planner.....£29.99
- GFA BASIC 3.5 Interpreter.....ONLY £19.99
- HiSoft Basic.....£54.99
- Home Accounts 2.....£37.99
- Imagine V2.....£189.99
- Lattice C Version 5.7.....£149.99
- Opus Directory.....£29.99
- Pagesetter 2 DTP.....£42.99
- Pro Draw version 3.....only £79.99
- Pro Page professional V3 DTP.....£129.99
- Protect 4.3 W/P.....now only £39.99
- Pro Video Plus.....£139.99
- Quarterback Tools.....only £44.99
- Sequencer One.....£49.99
- Superbase Personal.....£19.99
- Scala 500.....£79.99
- TURBO PRINT.....£49.99
- Vista.....£29.99
- Vista Pro 2 (2 Mb required).....£69.99
- Walt Disney Animator.....£64.99
- Wordworth 1.1 word publisher.....£72.99
- Xcopy Pro Inc. hardware.....£33.99

AMIGA A590 20 Mb HD £199.99!!

GVP HARD DRIVES AND ACCELERATORS

AMIGA A500 HARD DRIVES

- GVP Series II HD8+ 52Mb **only £345.99**
- GVP Series II HD8+ 105Mb **only £449.99**
- GVP Series II HD8+ 240Mb **only £734.99**

A500 GVP Combo Accelerators

- A530 Combi 40MHz/52Mb Hard Drive **only £699.99**
- A530 Combo 40MHz/120Mb Hard Drive **only £849.99**
- A530 Combo 40MHz/240Mb Hard Drive **only £1039.99**
- 68882 Co-Processor for A530 **only £234.99**

GVP memory RAM

- 8mb RAM card AMIGA 1500/2000 with 2mb **only £149.99**
- 32 bit 60ns 1Mb SIMM for Accelerator **only £64.99**
- 32 bit 60ns 4Mb SIMM for Accelerator **only £179.99**

1500/2000 Hard Drives

- Impact Series II HC8+ Control card **only £134.99**
- Impact Series II HC8+ with 52Mb Hard Drive **only £274.99**
- Impact Series II HC8+ with 120Mb Hard Drive **only £419.99**
- Impact Series II HC8+ with 240Mb Hard Drive **only £639.99**
- Impact Series II HC8+ with 420Mb Hard Drive **only £1169.99**
- 1500/2000 Accelerators
- G-Force 030-25MHz with 1Mb 32 bit RAM **only £549.99**
- G-Force 030-40MHz with 4Mb 32 bit RAM **only £899.99**
- G-Force 030-50MHz with 4Mb 32 bit RAM **only £1269.99**
- G-Force 040-28MHz with 2Mb 32 bit RAM **only £1699.99**

All GVP products come with a full 2 year warranty

THE POWER SCANNER

This scanner comes with the latest version 2 software. With bright and sharp grey scale performance and flexible scanned image display manipulation options. Options include Clean up, embolden, resize and flip. Highly recommended by the reviews!

only £94.99 or Colour version only £229.99

NEW!! ROCGEN CHROMA KEY

For creating special effects in video production with genlocks

only £269.99

NAKSHA MOUSE

With Operation Stealth, mouse mat, holder and 2 year warranty, 290 DPI

only £24.99

Rocgen Genlock

with built in mode switch box and auto pass thru function.

only 89.99

ROCTEC MOUSE

High quality mouse for the Amiga. Fully micro-switched.

only £13.99

Rocgen Plus

Includes dual control for overlay and keyhole effects, extra RGB pass thru

only £129.99 NEW!!

DRAM & CUSTOM CHIPS

- 1mb by 8/9 SIMMS (for GVP and others).....£27.99 per Mb
- 4 Mb by 9 Simms (for GVP and others).....£109.99 per 4 Mb
- 1 Mb by 4 DRAMS for Supra and other RAM applications.....£27.99
- 1 Mb by 4 ZIPS.....only £38.99 per Mb
- Kickstart 1.3.....£27.99 256 by 4 DRAM (DILs)
- Kickstart 2.04.....£33.99 ideal for A590 & Supra Hard drives and others
- Fatter Agnes 8372A.....£30.99
- Super Denise.....£30.99 4+ (512K).....now only £3.49
- 6570 Keyboard controller.....£7.99 8+ (1Mb).....now only £3.29
- CIA 8520A Disc controller.....£8.99 16+ (2Mb).....now only £3.05

FINAL COPY new version 1.3!!

Now faster and easier to use, this superb word publisher from the writers of PenPal. With built in outline fonts for top quality output, full graphics import capability (IFF and HAM). Features include thesaurus, spelling checker and detector, insert date, time, and page number, scale graphics to any size, crop graphics, multiple columns layout, magnified and reduced page view, and much more.

Highly Recommended **now only £47.99**
or £99.99 with Cumana 3.5" external drive

AMIGA RELEASE 2 UPGRADE KIT

Complete with: Kickstart 2.04 CHIP, Workbench 2.04, Install, Fonts and Extras disksfull Commodore manual set

only £79.99

PLATINUM WORKS PLUS HOME ACCOUNTS !!

As recommended by Commodore, we believe this to be one of the best all round integrated business packages on the Amiga. It comes with Platinum Scribble w/p, spell checker, thesaurus, Analyse (a "Lotus 123" compatible spreadsheet with 3D graphics), a database, sideways printing utility and communications software plus the best selling Digita Home Accounts

only £44.99!!

DIGI-VIEW GOLD MEDIA SYSTEM

Comes complete with the famous Digi-View Gold, Digi-Paint and Elan Performer

now only £119.99

PAGESTREAM 2.2

The latest version of this powerful DTP package that we recommend. Better than a lot of DTP packages on a PC and better than most on a Mac

£89.99 NEW!! LOW PRICE

NEW!! KINDWORDS V3

Very similar to Wordworth but without Speech synthesis and produced by Digita

only £37.99

INTERSPREAD

This new spreadsheet is highly recommended at a bargain price. Features include graphics presentation, and advanced macros

only £24.99

PENPAL 1.4

This best selling WP incorporates many features found only in a desk top publisher. Also includes an easy to use database

only £53.99

QUARTERBACK V5

New, completely re-written version of this Fast and Famous hard disk backup utility. Supports up to 4 disk drives, variable compression options and full Macro and AREXX support. The Best!

only £39.99

NEW!! 37 COMPUGRAPHIC FONTS

for use with Pagedream, Pagesetter, Propage and many others

only £9.99

Quarterback Tools.....only £44.99

DISKS PHOENIX AMIGA A500 PLUS & A600 RAM MODULES

All our 3.5" disks are GUARANTEED FOR A LIFETIME and are CERTIFIED 100% ERROR FREE double sided, double density disks are of the highest quality in magnetic media and are extensively used by duplicating houses

QTY	3.5" Bulk	OR	SONY BRANDED
10	£4.99		£6.99
30	£14.29		£17.99
50	£21.99		£28.99
100	£39.99		£54.99
200	£72.99		£99.99
500	£169.99		£POA
1000	£339.99		£POA

Sony Branded disks come complete with labels
Disk Labels.....500.....now only £6.99
Disk Labels.....1000.....now only £9.99

Built for First Choice these high quality RAM modules will take your A500 Plus or the new A600 (inc built in real time clock) up to 2 Mb of chip RAM without invalidating your warranty.

	A500P	A600
Unpopulated.....	only £16.99	£29.99
Populated to 512K.....	only £29.99	£39.99
Populated to 1 Mb.....	only £39.99	£49.99

NEW!! PHOENIX ROM SHARERS

Because some older software will not run on the new 2.04 operating system First Choice launched the high quality Phoenix ROM sharer. Recognised as being the best on the market, this ROM sharer features a flexible ribbon connection so that it can be positioned anywhere within your A500 Plus or A600. Keyboard swappable sharer now available! All our Phoenix products come complete with a full 2 year replacement warranty

now only £19.99 or £27.99 for keyboard swappable version
Kickstart 1.3 only £27.99 or Kickstart 2.04 only £33.99

SUPRA RAM

The ultimate Amiga A500 expansion. Take your A500 up to 9 Mb (10 Mb with the A500 Plus). Fits onto the side expansion port. Auto configures with no software patching.

Please note that when 256*4 ZIPS are used, the Supra RAM can only be populated to a maximum of 2 Mb. If you use this configuration and want to further increase your capacity you must replace the 256*4 ZIPS with 1 Mb by 4 ZIPS

- 8Mb pop to 1Mb.....£94.99
- 8Mb pop to 2 Mb using 256*4zips.....£119.99
- 8Mb pop to 2 Mb using 1Mb*4 zips.....£139.99
- 8Mb pop to 4 Mb.....£194.99
- 8Mb pop to 8 Mb.....£299.99
- 8Mb pop to 2 Mb for 2000/1500 range.....£149.99

512K RAM EXPANSION

Top quality RAM expansions for the A500 complete with battery backed clock and on/off switch. This RAM expansion will not in any way invalidate your Amiga warranty!!

now only £24.99

MAIL ORDER? WHY FIRST CHOICE?

Order by telephone quoting your credit card number. If paying by cheque please make payable to FIRST CHOICE. In any correspondence please quote a contact phone number and post code. Allow 5 working days for cheque clearance

Mail order Hotline 6 LINES

24 HOUR MAIL ORDER SERVICE!!

0532 319444

Prices are subject to change without notice. E&OE.

- * All prices include VAT and Standard Delivery
- * All hardware/computers are genuine UK spec.
- * Free Fast Standard 4 to 7 day Delivery
- * Guaranteed 2 to 3 day Delivery **only £2.00**
- * Guaranteed Next Day Delivery **only £4.50**
- * Open seven days a week for your convenience

PLEASE ADDRESS ALL CORRESPONDANCE TO:

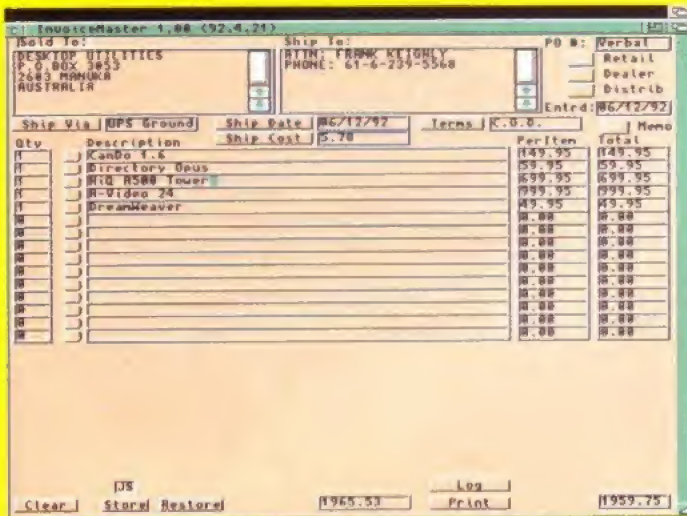
DEPT AF, UNIT 3, ARMLEY PARK COURT, OFF CECIL STREET, LEEDS, LS12 2AE



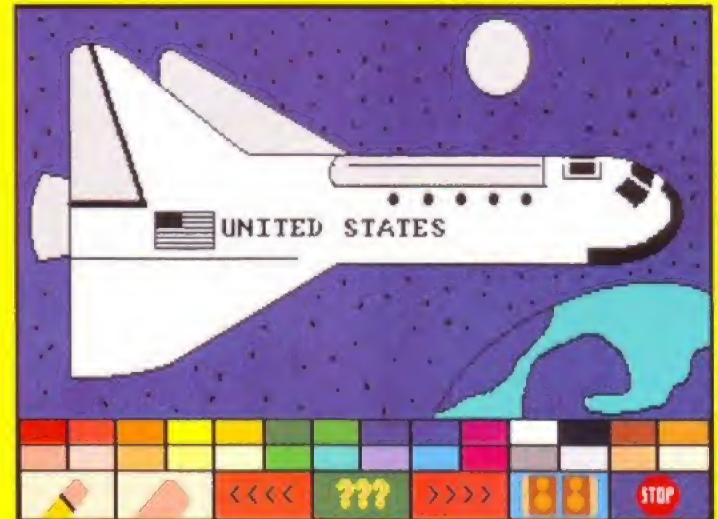
Q: What's unique about this version of this game?



Q: How do you tell the world about the Amiga possibilities in your hometown?



Q: How does a booming software company keep track of *all those invoices*?



Q: How do you keep your kids from driving you nuts on a rainy Saturday afternoon?

A: They did it with CanDo.

Scenario I: You sit at your Amiga, wondering if someone makes a combination database/quiz program (that kids would love). Summer fades to Autumn. Frustration sets in. (slow fade to black)

Scenario II: You've just dreamed up a really excellent piece of software that you can't find anywhere. Being a CanDo sort of person, you do it yourself: window border styles, fonts, menus, anims, sounds, and much more, all under your control.

CanDo is available at these and other fine dealers

First Choice
0532 637988
SDL
081 309 5504

Merlin Computers
0602 441442
Silica Systems
081 309 1111

Digital Disks
0602 47 5166

Hobbyte
0582 45 7195

Meridian Software
081 5433500

City Beat
0234 855666

Power Computing
0234 843388

Centre Soft
021 625 3388

Zone Distribution
081 766 6564

Checkmate Systems
071 9230658

Gordon Harwood
0773 856781

HB Marketing
0753 686000

CanDo To The Rescue!

The beauty of working with CanDo is that *you* get exactly what *you* want with a minimum of time and effort. **And if you're a "real" programmer,** remember, CanDo can make short work of a lot of big projects.

So, go ahead. Try It!

We think that you'll love to CanDo-it-yourself. You'll be creating your own software in no time.

CanDo v1.6 only £ 99.95!

INOVAtronicS

Be More Productive.

Techie aspirations: a rough guide to MHz, Mb and I/O

Whether it's a normal upgrade or a supercharged mega-Amiga that you're after, there are four main areas to think about when you're adding to your Amiga. As follows...

CPU SPEED

The Central Processing Unit is the main chip that does all the processing work, and the speed at which your Amiga can do things is governed by what's called the 'clock speed', measured in MegaHertz (MHz), or millions of cycles per second. The higher it is, the faster your Amiga works.

The normal Motorola 68000 CPU in your Amiga runs at 7.14MHz, but this can be replaced with new chips from the same Motorola 'family' – the 68020, 68030 and 68040 in particular – to run at varying higher clock speeds.

DISK STORAGE

The normal way to get a massive amount of storage space on which to keep all of your programs and files is to get yourself a hard disk. Storage space is measured in megabytes (Mb), which is to say millions of characters. An average floppy disk holds only 880K, but there are 1024K in a Mb.

Really massive hard drives which go up to 250 Mb are now available, and if you need even more space there are removable cartridge drives and read/write optical drives to consider. Another massive storage medium is the CDTV disc, which can contain well over 600 Mb of data: but you can only read data from it, not actually use it to store things on yourself.

RAM (RANDOM ACCESS MEMORY)

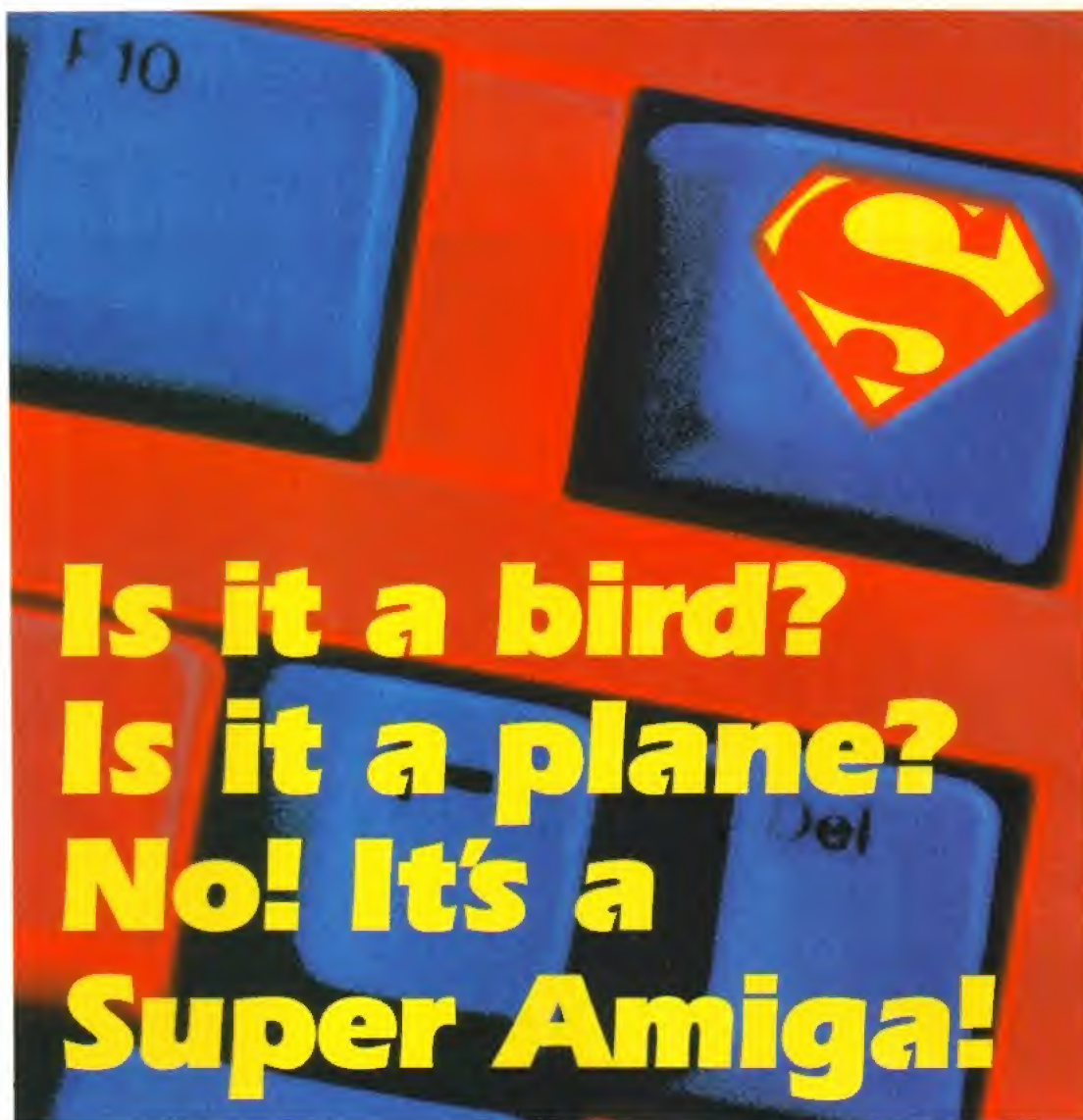
This is the working area of memory, into which the Amiga loads programs and files when it is running them. RAM is made up of chips, but it is measured in Mb, just the same as storage space is.

The Amiga 500 can be expanded right up to a full 9Mb of RAM, but the most that a program will probably ever need to run is about 4-5Mb, and then that's only for the most powerful of snazzy graphics programs.

INPUT/OUTPUT

This is shortened to I/O, and it covers all the methods by which you communicate with a computer (either the keyboard or mouse) and by which it talks to you (the screen display and the sound). What it also covers is communications with such gadgets as printers and other computers, via the 'interfaces' or 'ports' (sockets, to you and me) on the back of the Amiga.

Most I/O upgrades are a matter of convenience or ease of use rather than the actual power you have, but if you are using your Amiga for something intense like desktop publishing work, the advantages of an improved screen display or a better mouse could become relevant.



Is it a bird?
Is it a plane?
No! It's a
Super Amiga!

The A500 is not being made any more, but with well over a million of them in this country alone still alive and kicking, it's far from dead. In fact, there are now more powerful expansions available for it than ever before.

Pat McDonald shows how your A500 can be turned into a spectacular super machine. Up, up and away...

THE AMIGA IS NOW in a position which other computers envy. There's more software available for it than any other, more new titles appearing than on any other format, and every month in *Amiga Format* there are yet more widgets, gadgets and contraptions to make it do ever more outrageous things.

Commodore's announcement earlier this year that the A500 will no longer be made (it's been replaced by the smaller A600) has left many people with the thought that 'it's all downhill from here'. But the doom-and-gloom brigade are a tiny minority. And they are totally wrong.

Back in 1985, Commodore had to find a way of making the original Amiga, the A1000, fit the marketplace. They produced two new machines. One was the A2000, with a huge case and a big power supply to house and feed future wonder boards. It was a machine designed for those for whom money was no

object, and its expansion potential was intended to be limitless.

The A500 was designed for the home market and its design was dictated by the need to sell it below the magic £500 barrier, which the computer industry uses to distinguish between the business professional and the home enthusiast. It was never meant to be a wonder machine. But in terms of what specialists call 'architecture' (how a machine is built) it was practically the same as the A2000.

Which meant that you could add more and more and more to your basic A500. Today there are more expansions for the A500 than there are for any other other Amiga, which is down to the ingenuity and improvisation of hardware engineers who have worked out how to squeeze more and more power into one small machine. And, even as we speak, they're refining something even bigger and better which will be out soon...

This A500 has a 68030 accelerator running at 40MHz, 9Mb of RAM and a 120Mb hard drive – and it's a PC-compatible, too!

WHAT'S INSIDE...

GVP PC286 PC emulator

Not spotted unless you look closely in the photograph. Because this is an 'operating system friendly' emulator, it's really rather slow on a standard Amiga. In conjunction with an A530, the PC286PC becomes quite a viable option.

£249 GVP via Silica 081-309 1111

GVP A530 combined hard drive, accelerator and RAM expansion

The main box attached to the edge connector is the A530. This is the best you can buy – it's also available with a 240 Mb hard drive, but we settled for 120 Mb.

It's also got 8Mb of 32-bit RAM (though the normal model comes with as much or as little memory as you request) and the optional 68882 maths coprocessor (good at doing sums involving fractions). And it has the 40MHz 68030 CPU which is standard for the A530. List price? A cool £1,516 inclusive!

However, you don't have to spend that much at one go. The base model is 1Mb of RAM, 52 Mb hard drive and no 68882 – I recommend at least 2Mb of 32-bit RAM, so that you can ROM shadow. This copies Kickstart to accelerated RAM, speeding up Workbench and many other programs before the accelerated CPU even comes into play!

£749 base price GVP via Silica 081-309 1111

In terms of performance, their gear is definitely the best. Speed for speed, you can load and save much faster on a GVP hard drive than any other make. Their Series 2 HD500+ hard drive has consistently been rated the best on the market. The A530 is the continuation of that technology.

The A530 also has what GVP call a 'minislot' to take further expansions: at present only a PC emulator, the PC286 (reviewed last issue on Page 148), is available for this. When it comes down to it, GVP are expensive. But their equipment is worth every last penny.

THIS AMIGA SET-UP is an unusual one, because all those extra goodies come in just one single expansion, in an easy-to-fit box. The A530 is made by GVP (Great Valley Products) in America, the largest manufacturer of Commodore peripherals in the world. Their philosophy is a simple enough one: build the best possible quality, whatever the cost. And, believe me it shows.

GVP hard drives are designed to look as though they are Amiga extras. Although a couple of other hard drive manufacturers have aped this, none look as good as GVP's – the

grooves, notches and slope of the A500 are faithfully mimicked. The fact that GVP put a switch on the front, rather than the back, is yet another little bonus.

Under the casing, from an engineer's point of view, the build quality is excellent. GVP were among the first Amiga third parties to start taking all the little logic chips that do odd jobs, and put them into one big chip. This approach is known as VLSI (very large scale integration), and although it started well before the late Eighties, GVP were the pioneers as far as the Amiga scene goes.

This is an astonishing expansion because it all comes in the hard drive box that fixes on the edge connector: so easy to fit, and it doesn't invalidate your warranty!

A530 HARD DRIVE WITH ACCELERATOR

£749 GVP via Silica 081-309 1111

Installing the A530 is an easy enough job that anyone can undertake. Just take it out of the box, plug in the power and slide it on to the expansion port on the left-hand side of any A500 or Plus.

When it first turns on, it autoconfigures to either Kickstart 1.3 or 2.04, recognising what type of Amiga you have. Very clever – most hard drives are set up for Kickstart 1.3, so getting them to work with an A500 Plus is not that easy unless you know what you are doing.

You get a 40MHz 68030 CPU, 1Mb of 32-bit RAM, and space for a 68882 maths coprocessor. The latter is useful only for programs which actually look out for it – and this is in fact the vast majority of maths-intensive ray tracers. A few game simulations look for one of these two (look for flight simulations released in the last 18 months). The more people that have a 68882, the more software

houses will support them. As for RAM, the A530 uses SIMMs for expanding memory. Single in-line memory modules are fairly small, about the size of a stick of chewing gum. However, there is one ever-so slight snag with this design. Only two sockets are provided for RAM expansion, and one of them is already filled with a 1Mb SIMM as supplied.

So your choice when it comes to expanding the 32-bit RAM is a bit tricky – you can either settle for 2Mb by plugging in another 1Mb SIMM, or part exchange the SIMM you've got for a 4Mb version. Two 4Mb SIMMs give, of course, 8Mb of RAM – that's the limit of the A530.

The manual is excellent, well illustrated and clearly written. The supplied software doesn't just get you started – it's useful throughout the lifetime of the drive. Want to plug an extra SCSI drive into the back? No problem – the tools are there to let you do it. GVP have done it again!



94%

This A500 has a 68000 accelerator running at 14MHz, a 60 Mb hard drive, 7Mb of RAM and a rock-steady screen display

WHAT'S INSIDE...

Flicker Free Video 2

The only way of bringing rock-solid interlace images to an A500. ICD are currently upgrading their range, exact prices are not easy. The original Flicker Free Video, for example, costs £199, so this should be about £230.
£229.95 ICD via Power 0234 843388

AdIDE/AdSpeed internal hard drive and accelerator combo

The new AdIDE/AdSpeed combination ('combo' board) is even harder to appraise. One AdSpeed will set you back £149, while a 20 Mb AdIDE costs £199. The new combo with a spec like the one we've got (60 Mb) would set you back £650 or more. A 20 Mb version would cost perhaps £300 or so.
£650 approx ICD via Power 0234 843388

AdRAM memory expansion

The AdRAM 540 plus 560D daughter board RAM expansion costs £429, giving 6Mb of RAM. You can buy the 540 for £229, and upgrade it with a 560D later for £199, should the need arise. It remains the only oversize trapdoor RAM expansion that I recommend, simply because it's very well built, well supported and well documented.
£250 approx ICD via Power 0234 843388

So this set-up would set you back in the region of £1,300 just for the expansions.



THIS AMAZING AMIGA set-up reflects ICD of America's own way of doing things. A quirk of ICD gear is that it's invisible, tucked out of sight inside the Amiga's casing. The theory is that, with the A500 being so spread out, there's really no call to make it any bigger. Just a few square centimetres on the inside is enough to cram in their latest bit of kit.

By avoiding casing and power supplies, ICD can concentrate on build quality and ironing out the bugs in their systems – which translates as better value for money. They never, ever skimp on engineering quality.

The beauty of ICD kit is that it all fits inside the A500. The flicker fixer is at the top, the faster processor is just above the keyboard, the hard drive is the big blocky silver thing and the RAM expansion fits into the trapdoor slot area.

That's the reason why the ICD AdRAM 540/560 system is the only oversize trapdoor RAM expansion I advocate – because it has a large capacity, and yet never falls over due to taking too much power.

Where can you get hold of a hard drive that fits inside of an A500? Again, ICD are the only company in town that can fit the bill. Using small IDE type hard drives, you can get a 20 Mb, 40 Mb or even 52 Mb hard drive squeezed into the inside of your computer. Although the latter product (the Prima) means having to use external floppy drives.

This approach of 'everything in one box' doesn't just mean more desk space. If you've ever had a poked up Amiga system that needed to be moved, how many power supplies were there to shift? How many boxes and manuals and leads?

Finally comes the bone of contention, the AdSpeed accelerator. It only adds a fractional computing power to the Amiga, nevertheless it is the smallest, cheapest design. A shame it's not very good – but remember, expansions from these guys are always, due to necessity, small. ICD? They're in a class of their own!

ADSPEED/ADIDE

From £300 approx ICD via Silica 081-309 1111

Before, if you wanted to plug in an ICD accelerator (AdSpeed) and an internal hard drive (AdIDE Novia) you couldn't do it. There wasn't space for both to fit on the board. So ICD have combined the two in one, super-duper mini expansion.

This has two snags. AdSpeed isn't an amazing accelerator – it's just a 68000 running at twice the speed. ICD have put extra circuitry on to boost things a little, but you only get a performance increase of 90-100 per cent. The Novia unit does not support extra SCSI units (hard drives, scanners, tape streamers). But it does work satisfactorily – you get a tiny small hard drive in the heart of your Amiga.

Documentation is not special, but is clear and up to date. This is not in the same league as a 68020 or 68030 accelerator – but it does give a certain amount of boost.



78%

FLICKER FREE VIDEO 2

£229.95 ICD via Silica 081-309 1111

When the Amiga is switched to high resolution in the vertical plane – Interlace mode – the screen blurs. This is the only solution for A500 owners. The new version has a major plus: when you return to non-interlaced video displays, version 1 doesn't display it properly – it didn't have an off switch. FFV 2 doesn't have a switch, but it has a couple of pins to solder a switch to – the manual tells you how.

Fitting the board is easy – it plugs into the Denise socket. The quality of construction is very high, the manual is good and you also get a choice of connector in the box. However, unless you are very lucky you still need to have a cable made up to fit it to a Multisync monitor. However Power Computing will supply FFV2, cable and multisync monitor all in one deal, which costs a lot but is worthwhile.



84%

This A500 has a 68030 processor running at 25MHz, 7Mb of RAM, a 160Mb hard drive and a 'true colour' display

AMIGA FORMAT

38

SEPTEMBER 1992



WHAT'S INSIDE...

Protar A500 HD hard drive and RAM
Quoth Protar: "We are dropping our prices, but we're not sure by how much. For a bare 52Mb hard drive, we expect to ship for around £279. And for the optional power supply about £30".

Given that you also need RAM, a usable, expandable Protar will cost about £320. Our test drive has a capacity of 160Mb and 4Mb RAM - for that sort of kit a price of £700 would be more realistic.

Base £279 approx Protar 0923 254133

SSL B5000 68030 accelerator

Solid State Leisure are more definite. "We are now only supplying accelerator cards with math coprocessors built in." SSL gear comes with 1Mb RAM, an A5000 model running at 16Mhz costs £249, while a B5000 at 25MHz will set you back £499. The review version (2Mb on board) clocks in at a cool £558.

Base £249 SSL0933 650677

DCTV graphics adapter

The sharp-eyed readers will have spotted a DCTV in the photograph. This is a 'budget' graphics card that allows the viewing of 24-bit IFFs and painting on them. It also includes a digitiser for grabbing images. 5Mb RAM is recommended.

£500 Silica 081-309 1111

THE DIFFERENCE WITH this set-up is it's not the sole work of one company. It combines a hard drive from Germany, a British accelerator and an American display gadget that gives pseudo 'true colour' graphics.

Of course, there is a plethora of companies making equipment of a similar specification, and this page is designed to help you avoid some of the pitfalls.

Solid State Leisure is the only company who make accelerator cards here. SSL gear is cheap because it's not built very well. But it works, has a suite of utilities, and is cheap.

Then there's Protar, who specialise in A500 hard drives. Based in Germany, the quality is very good. Then there's Supra whose equipment is well made, usually reliable, and comes with lots of utility software and documentation. It doesn't look pretty, but it works well.

I could go on and on, dropping names, but instead, here are those pitfalls I mentioned.

When ordering peripherals, always state exactly what sort of Amiga you have. The difference between the A500 and A500 Plus is not that great - but it can be the difference between an expansion working or failing.

Sheesh! That's serious expansion! The huge B5000 accelerator card will just fit in the case, the Protar hard drive occupies the edge connector and the DCTV slots in on the RGB output. There's kit all over the place, yet it's not too messy.

For instance, accelerator cards always plug into the processor socket. All well and good, except that some machines have a stray capacitor rising up just below that point - which means the card cannot plug in properly.

There are other pitfalls too. The trapdoor expansion connector on a Plus is different from that on a 500. So expansions like the KCS Bitcon PC emulator have two different versions, and they are not interchangeable.

Building up your system using kit from different parties will cost you more - but you can buy one piece at a time.

PROTAR A500 HD HARD DRIVE WITH MEMORY EXPANSION

£300-700 approx Protar 0923 254133

This looks very similar to a GVP. Surely it's a lower priced clone? Inside though it's a different story - Protar don't use VLSI but all the little chips are surface mounted, giving reliability and longer life. The Protar manual is impeccable.

In use the drive behaves well, reading and writing data at a respectable speed. Unlike a GVP, the disable switch is on the back of the unit and it's secured to the circuit board so is less likely to wear out quickly and easier to replace if it does.

Unfortunately you do not get extra RAM as standard with this model, but it can take up to four 1Mb SIMM modules, or two 4Mb units in a similar way to the GVP. All in all, an excellent drive at a good price.



87%

SSL B5000 25MHZ 68030 ACCELERATOR PLUS 68882

£499 SSL 0933 650677

Made to the usual UK standard: there are a couple of hastily fixed bodes on the board. The manual is a sheet of paper, but most of the documentation is on disk. What you get varies with price - B5000s have a 68030 CPU chip whereas A5000s have a 68020, but from now on SSL will always supply their products with 68881 or 68882 math coprocessor chips. And SSL have just cut their prices yet again.

The B5000 on test performed well. Although a 25Mhz CPU should let an A500 run just as fast as an A3000, in tests it never came quite up to the level. It was close in many cases, but it never went quite as fast. This is down to the A3000 being designed around the 68030 from the beginning.



80%

FREE CATALOGUE

COMPLETE & RETURN THE COUPON BELOW FOR A FREE 64 PAGE COLOUR AMIGA CATALOGUE

FREE! FROM SILICA



When you buy your new Amiga computer from Silica Systems, we will give you an additional £359.73 worth of software FREE OF CHARGE, including some great entertainment and productivity programs. These free gifts will introduce you to the world of computing and help you to get off to a flying start with your new Amiga. Plus, with every Amiga from Silica we will give you 16 nights FREE holiday hotel accommodation for you and your family to enjoy a break at home or abroad.

16 NIGHTS HOLIDAY HOTEL ACCOMMODATION
Every Amiga 500 and 600 from Silica comes supplied with a free 72 page colour brochure with accommodation vouchers. These entitle 2 people to stay up to a total of 16 nights in any of 250 hotels with accommodation FREE. All you have to pay for are your meals (prices are listed in the brochure).

ARCADE ACTION PACK:
10 Superbit entertainment titles.

ASTERIX	£24.99
CHESS PLAYER 2150	£24.95
DRIVIN' FORCE	£19.95
LIVE AND LET DIE	£19.99
ONSLAUGHT	£24.99
PIPE MANIA	£19.99
RICK DANGEROUS	£24.99
ROCK 'N' ROLL	£19.99
SKWEEK	£19.99
TRIVIAL PURSUIT	£19.95

PRODUCTIVITY:

PHOTON PAINT 2.0	£89.95
The recommended parts package	
GFA BASIC V3.5	£50.00
A power basic interpreter	
TOTAL VALUE:	£359.73

WORTH NEARLY £360!

Commodore AMIGA



AMIGA 500 WITH BUILT-IN NUMERIC KEYPAD

- 512K AMIGA 500 COMPUTER
- BUILT-IN 1Mb DRIVE
- A520 TV MODULATOR
- MOUSE CONTROLLER

PLUS! FREE FROM SILICA:

- PHOTON PAINT 2.0
- ARCADE ACTION GAMES PACK
- GFA BASIC INTERPRETER V3.5
- 16 NIGHTS HOLIDAY HOTEL ACCOMMODATION



£299
INC VAT & DELIVERY REF: AMC 0550

CARTOON CLASSICS



AMIGA 500+ WITH BUILT-IN NUMERIC KEYPAD

1Mb AMIGA 500 PLUS	£399.99
BUILT-IN 1Mb DRIVE	FREE
A520 TELEVISION MODULATOR	FREE
THE SIMPSONS - BART v SPACE MUTANTS	£24.99
CAPTAIN PLANET AND THE PLANETEERS	£25.99
LEMMINGS	£25.99
DELUXE PAINT III	£79.99

PLUS! - FREE FROM SILICA

PHOTON PAINT V2.0	£89.95
ARCADE ACTION GAMES PACK	£219.78
GFA BASIC INTERPRETER V3.5	£50.00

TOTAL PACK VALUE: £916.68
LESS PACK SAVING: £557.68
SILICA PRICE: £359.00

PLUS! 16 NIGHTS FREE HOLIDAY HOTEL ACCOMMODATION

£359
Ref: AMC 0600

NEW! AMIGA 600



20Mb HARD DISK VERSION AVAILABLE

1Mb AMIGA 600	£399.99	20Mb HD	£399.99
20Mb HARD DISK	N/A	20Mb HD	£299.00
DELUXE PAINT III	£79.99		N/A
MYSTERY GAME	VARIABLE		N/A

1 YEAR HOME SERVICE WARRANTY PLUS! - FREE FROM SILICA

PHOTON PAINT V2.0	£89.95	£89.95
ARCADE ACTION GAMES PACK	£229.78	£229.78
GFA BASIC INTERPRETER V3.5	£50.00	£50.00

TOTAL PACK VALUE: £849.71
LESS PACK SAVING: £450.71
SILICA PRICE: £399.00
£499.00

NO HARD DISK £399
20Mb HARD DISK £499
Ref: AMC 0700

NEW! CDTV DRIVE



AMIGA ADD-ON FOR A500 & A600

Commodore have announced their new CDTV drives for the Amiga 500 and 600 computers. Simply plug the drive onto your Amiga and you have the power to:

- **USE THE SUCCESSFUL RANGE OF CDTV SOFTWARE** A vast array of titles are available now and more are being released all the time. With the CD's ability to retrieve 540Mb of data (over 610 Amiga floppy disks!), it is the ideal media for entertainment, music, education and more!
- **PLAY NORMAL AUDIO CDs.** The CD Player (8 x over sampling) outputs top sound quality. The CDTV drive allows you to select random play, pre-set play order and much more, all with on-screen options.
- **PLAY AND SEE CD+G (Compact Disk + Graphics) CDs** show graphics on screen (on the track theme, or lyrics) as the track plays.

To use the A670 CD-ROM drive, your Amiga must have 1Mb of chip RAM. All A600s and A500 Plus models are fitted with 1Mb of Chip RAM as standard. If you have a non-plus version of the Amiga 500, your computer will require an internal modification which Silica can perform for you. Please call quoting ref: REA 1000.

There are two versions of the CD-ROM drive:

Amiga 500 (all models) - Ref: CCD 9570	£399
Amiga 600 (avail Sept) - Ref: CCD 9571	£399

PLEASE CALL FOR STOCK AVAILABILITY

ALL PRICES INCLUDE VAT - DELIVERY IS FREE OF CHARGE IN THE UK MAINLAND

SILICA SYSTEMS OFFER YOU

- **FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.
- **TECHNICAL SUPPORT HELPLINE:** Team of technical experts at your service.
- **PRICE MATCH:** We normally match competitors on a "Same product - Same price" basis.
- **ESTABLISHED 12 YEARS:** Proven track record in professional computer sales.
- **BUSINESS + EDUCATION + GOVERNMENT:** Volume discounts available 081-309 0888.
- **SHOWROOMS:** Demonstration and training facilities at our London & Sidcup branches.
- **THE FULL STOCK RANGE:** All of your requirements from one supplier.
- **FREE CATALOGUES:** Will be mailed to you with offers and software/peripheral details.
- **PAYMENT:** By cash, cheque and all major credit cards.

Before you decide when to buy your new Amiga computer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after buying your Amiga, when you may require additional peripherals or software, or help and advice with your new purchase. And, will the company you buy from contact you with details of new products? At Silica Systems we ensure that you will have nothing to worry about. We have been established for over 12 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

MAIL ORDER HOTLINE 081-309 1111

SILICA SYSTEMS

MAIL ORDER:	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX	Tel: 081-309 1111
	Order Lines Open: Mon-Sat 9:00am-6:00pm	Fax No: 081-308 0608
		No Late Night Opening
LONDON SHOP:	52 Tottenham Court Road, London, W1P 0BA	Tel: 071-580 4000
	Opening Hours: Mon-Sat 9:30am-6:00pm	Fax No: 071-323 4737
		No Late Night Opening
LONDON SHOP:	Setdrides 1st Floor, Oxford Street, London, W1A 1AB	Tel: 071-629 1234
	Opening Hours: Mon-Sat 9:30am-6:00pm	Extension: 3914
		Late Night: Thursday until 8pm
SIDCUP SHOP:	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX	Tel: 081-302 8811
	Opening Hours: Mon-Sat 9:00am-6:30pm	Fax No: 081-309 0017
		Late Night: Friday until 7pm

PLEASE SEND A 64 PAGE AMIGA COLOUR CATALOGUE

Mr/Mrs/Miss/Ms: Initials: Surname:

Address:

Postcode:

Tel (Home): Tel (Work):

Company Name (if applicable):

Which computer(s), if any, do you own?

808

INTERNATIONAL SPORTS CHALLENGE

"International Sports Challenge brings you all the excitement of 6 different sporting events in the most realistic multi-sports simulation ever produced"

6 SPORTS COVERING
21 EVENTS

SHOW JUMPING

• A masterpiece of 3D simulation! • Unique perspective, superb realism! • Different courses offering a multitude of challenges.



CYCLING

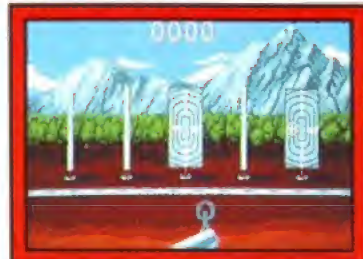
With stunning 3D vectors and unbelievable speed, the cycling event offers the most exhilarating and exciting race of your life.



MARATHON

The unique marathon is a test of strategy and technique as you take your runner through "the wall".

• The marathon, linking all other events together, allows you to tackle the ultimate challenge. • 4 courses. • Choice of six different runners. • Changes in terrain, weather and altitudes.



DIVING

• Over 40 dives to pick from on 1, 3 and 5 metre boards, together with a medley option. • More than 140 frames of animation gives this event unsurpassed realism and gameplay.



SWIMMING

Test your skills in the 100m Breaststroke, 200m Freestyle, 400m Butterfly or 4x100m Medley.

empire
SIMULATION

COPYRIGHT 1992
EMPIRE SOFTWARE.
ALL RIGHTS RESERVED
SCREEN SHOTS TAKEN FROM
AMIGA VERSION

AVAILABLE ON:
IBM PC & COMPATIBLES,
COMMODORE AMIGA
AND ATARI ST.



This Amiga has 2Mb of chip RAM, a built-in CD-ROM drive, infra-red remote control interface – and it can play music!

WHAT'S INSIDE...

CDTV plus keyboard and disk drive with 1Mb chip RAM expansion fitted

This is only being stocked by Calculus, who do the conversion themselves. Although it offers little in the way of speed or storage increases, it does at least give you more memory available for when you are using the machine as a true Amiga. It also has the undeniable good looks of a CDTV, without any unbecoming great gadgets that some Amiga's have protruding.

Although maybe not a 'Super Amiga' by the standards that we've previously talked about in this feature, this version of the CDTV does have one undeniable, if temporary advantage. It can play CDTV titles as well as audio music CDs – which is something that no A500 or Plus can do at present, although that will change when the A570 starts to go on sale.

So is it worth going out and investing in one or not? Well at £699, maybe not – but if you are going to buy a CDTV anyway, this is the only one that is really worth considering. It's going to work with far more software, it's going to give you more frames in *Deluxe Paint* and it will give you longer sound samples and bigger databases. Maybe not exactly a 'Super Amiga' – but certainly a 'Super CDTV' until Commodore start making new ones that is.
£699 Calculus 0543 251275



Inside the 2Mb CDTV there is more room for expansion than many people expect. You can even fit a hard drive, though you won't get the case back together!

With the A500 no longer on sale, how are the expansion possibilities of a machine that was designed to be even less expandable?

Pretty good. The CDTV I'm talking about here is only available from one source (Calculus) and has the unusual addition of an extra megabyte of chip RAM. That means that, in theory, it's more compatible with the huge range of software than the standard A500 Plus because CDTVs have the earlier Kickstart 1.3 rather than 2.04. (Though it's really called Kickstart 3.1, because half of the ROM is given over to being a CDTV.)

So how good an Amiga is it? Well, there is still the problem of having no fast RAM – although there are utilities which remap chip RAM as fast RAM. You can't do this the other way around, by the way.

OK, so the processor and custom hardware is much the same as the Amiga. How about a keyboard? CDTV keyboards are identical to A1500/A2000/A3000 keyboards, but black, with a different connector. No worries there.

How about the floppy disk drive, necessary to use the CDTV as an Amiga? Um... any old Amiga external drive will do actually – and

you can buy black ones too. What about hard drives? Surely you can't fit those into a CDTV? Well, actually the Novia units from ICD do fit inside and work. In addition, SCSI interfaces are on the way which plug into the expansion connector in the CDTV.

Accelerators? Again, the answer is yes, although a qualified one. The processor on a CDTV is the same as an A500 – a 68000 chip. The problem is fitting them in: you can't get the lid back on the CDTV! However, accelerators do work with the CDTV, if you can live without a case.

CDTV 2MB RAM CONVERSION

£699 Calculus 0543 251275

So, what do you get? Not much actually – just a standard CDTV with its Agnus chip removed and a board with a different Agnus chip stuck into the socket. But it comes with keyboard, disk drive and some sample CDTV software, too. It all adds up to a CDTV with 2Mb of chip RAM rather than 1Mb.

"Big deal!" I hear you mutter. But the difference is important. I have yet to find a way to turn off the drive in a CDTV, and that drive takes away memory from the system. Which means that there's less memory for programs – especially games.

In quite a few cases, as A500 Plus owners know only too well, having lots of chip RAM does not help. The number of software failures you get depends largely on the age of the software that you are trying to run – usually, the older the software, the less likely it is to work. There is one exception to this, and that is when a major game is re-released as budget software. Usually it is tweaked to work with an A500 Plus – which will make it compatible with this system too.

On the serious side, having a lot of chip RAM and no fast RAM is not usually a bad thing. Although older programs insist on having some fast RAM (especially animation programs) later versions of *Deluxe Paint III* and all versions of *DPaint IV* will happily use chip or fast RAM.

Other types of serious program, word processors, databases, and spreadsheets, don't care a fig what type of memory they are using, just so long as at least 1Mb is available and free. There are very, very few exceptions to this. Some programs enjoy having lots of chip RAM. Video titling software loves it, using it to store many pages of titles and images. Sound sampling software likes chip RAM too.

It would be wrong for me to say "this is a great Amiga, really fast and very powerful". But it does have the advantage of the CD capability and it would be just as wrong for A500 users who haven't even got 1Mb of chip RAM to laugh at it – it can do more than your machine, matey!



75%

**MEGA
GAMES
PACK**

New Amiga 600

MEGA GAMES PACKS

HARWOODS MEGA GAMES PACKS ARE NOW BASED ON THE EXCITING NEW AMIGA A600 RANGE OF 1Mb COMPUTERS AND ARE ONLY AVAILABLE FROM GORDON HARWOOD COMPUTERS... 'The Original Pack Specialists'

ALL OUR AMIGAS ARE UNITED KINGDOM SPECIFICATION AND INCLUDE THE FOLLOWING...

A600FD

1 Mb. Disk Drive, 1Mb RAM, Integral TV Modulator, 4096 Colours, Multi Tasking, Speech Synthesis, 4 Channel Digital Stereo Sound, Mouse, Workbench Disks & Manuals, ALL Connecting Cables, One Great Game from Commodore & Deluxe Paint III

A600HD

Spec. as above but with a 20 Mb. Hard Drive fitted. PLEASE NOTE... Neither the Commodore Game or Deluxe Paint III are included with the A600HD



**MEGA
GAMES
PACK**



GAMES



PACK 1



THAT'S RIGHT HARWOODS HAVE PUT TOGETHER THE ULTIMATE AMIGA PACKS YET AGAIN... STARTING WITH THE MEGA GAMES PACK 1 WHICH INCLUDES SOME GREAT GAMES!

Just look at what you get NOW...

- **AMIGA A600FD COMPUTER WITH A FULL 1Mb. OF MEMORY**
- **THE LATEST GREAT COMMODORE GAME** - With every A600FD you can look forward to receiving a fantastic leading title supplied by CBM which periodically changes [Supplied with A600FD ONLY not A600HD's]
- **DELUXE PAINT III** [Supplied with A600FD ONLY not A600HD's]
- **TAILORED DUST COVER AND MOUSE MAT**
- **AND A SUPERB HIGH QUALITY MICROSWITCHED JOYSTICK,**
- **PLUS.... 18 MORE GREAT GAMES, THERE'S SOMETHING FOR EVERYONE...**

Why not have the Amiga A600HD machine with a 20Mb. Hard Drive instead of the A600FD for only £79.95 EXTRA

Don't Forget... That whilst our Packs always offer superb value and are ideal for most buyers... if you wish to buy a computer without our games and/or accessories, simply call us where we will be only too pleased to offer you THE MOST COMPETITIVE UK DEAL tailored just to suit your needs.

Amiga A500Plus machines may still be available at special prices. Please Phone!

- BLOODWYCH** - Fantasy role-playing game, great interaction with your computer created environment
- BUBBLE+** - Help the dawdling ghost and the soap bubble, escape from the old deserted manor house
- CAPTAIN BLOOD** - Astonishing creatures and animated 3D graphics, this is a game you just have to play
- ELIMINATOR** - A progressive multi stage flying shoot 'em up, on a long winding course, survive if you can!
- HOSTAGES** - You must get your team and hostages out of the terrorist overrun embassy, without loss of life
- JUMPING JACKSON** - In a deluge of colour and sound save the earth from sadness and melancholy music
- KRYPTON EGG** - A classic Breakout game, 60 screens, separated by 6 combat sequences
- LANCASTER** - Your mission is to fly the classic WWII bomber on its dangerous raids over enemy territory
- LOMBARD RAC RALLY** - You drive your 300 bhp Sierra Cosworth through demanding stages of the rally
- PURPLE SATURN DAY** - Four arcade games, an exciting high speed trip into total cosmic 3D space
- SAFARI GUNS** - Live the African experience in an animal sanctuary, track the poachers & ivory traffickers
- STIR CRAZY** (Featuring Bobo) - Bobo & his inmates are planning a stunning trampoline jump prison escape
- SKYCHASE** - Airborne combat for every simulation fan. In this one or two player game, battle against your MIG flying adversary in your F-16 Falcon.
- SKYFOX II** - Skyfox II, the only ship fast enough to carry on the Skytox legend. Fight to blow your federation enemies from the Galaxy, at speeds of 9000 kilometres/second!
- STRIKE FORCE HARRIER** - Puts you in the cockpit of one of Britains most exiting fighter aircraft. Multiple skill levels let you progress to become an ace pilot
- TINTIN ON THE MOON** - We've been captured by Colonel Jorgen and he's trying to scupper the moon mission. Come on Tintin, you're the only one who can save us, and be the first on the moon
- TV SPORTS FOOTBALL** - Strap on your helmet for American football simulation that looks like the real thing.
- XENON 2 MEGABLAST** - This time it's war! The Xenites are back and have thrown time itself into turmoil.

WHY NOT ADD TEN EXTRA GAMES WHEN YOU BUY YOUR NEW AMIGA A600 FOR JUST £10!!! FANTASTIC HARWOODS VALUE!!!
ASTORM, DUNGEON QUEST, E-MOTION, GRAND MONSTER SLAM, RVF HONDA, DRIVIN' FORCE, PIPEMANIA, ROCK 'N' ROLL, SKWEEK, TOWER OF BABEL

A600FD PACK Priced at an INCREDIBLE

£399.95

Including VAT

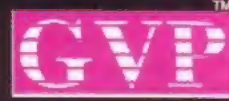
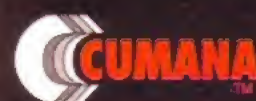
A600HD PACK FOR AN EXTRA...

That's right have Games Pack 1 with an Amiga A600HD with 20Mb. Hard Drive in place of the A600FD

£79.95

EXTRA Including VAT

We reserve the right to substitute individual software titles or pack items should the need arise.



AMIGA CDTV
Multimedia package
NEW
Fantastic value includes:
Amiga/PC Keyboard,
CDTV Player,
Remote mouse, 3.5" floppy disk drive,
ONLY £599.95
Or trade in your old Amiga for a big reduction
PHONE FOR DETAILS

CDTV

CAN, THE CONCEPT OF A NEW, MORE POWERFUL AMIGA...

... AND A COMPACT DISK DRIVE OF ALMOST INFINITE SIZE. A DISK DRIVE SO VAST, IT CAN HOLD MILLIONS OF DIGITS OF DATA. THIS DATA COULD BE, SPEECH, ANIMATED PICTURES, DIGITISED STEREO SOUND, COMPUTER IMAGES OR WHOLE ENCYCLOPAEDIAS... AND MORE.

SEE THIS AND YOU CAN START TO GRASP THE CONCEPT OF CDTV

FREE CDTV STARTER PACK ONLY FROM HARWOODS!!!

WHEN YOU CHOOSE YOUR CDTV FROM GORDON HARWOOD, NOT ONLY DO YOU GET OUR LEGENDARY SERVICE, BUT YOU ALSO RECEIVE YOU A CDTV STARTER PACK, TO GET YOU EXPLORING YOUR NEW WORLD - STRAIGHTAWAY. THIS INCLUDES A SUPERB SELECTION OF CD DISK TITLES INCLUDING THE WELCOME TUTORIAL & HUTCHINSONS ENCYCLOPAEDIA, PLUS... FIVE GAMES, SHERLOCK HOLMES & THE HOUND OF THE BASKERVILLES, SIM CITY, CHAOS IN ANDROMEDA, A TOWN WITH NO NAME, AND THE ACCLAIMED LEMMINGS, WORTH IN TOTAL ALMOST £200.00. IN ADDITION IS A FREE INFRARED REMOTE CONTROLLER. EVERYTHING TO GET YOU STARTED!

£499.95

CDTV ACCESSORIES

- CD 1220 KEYBOARD AN 89 KEY QWERTY KEYBOARD **£49.95**
- CD 1252 MOUSE INFRARED MOUSE WITH BATTERY SAVER. **£49.95**
- CD 1200 TRACKBALL INFRARED TRACKBALL. WITH THE OPTION **£79.95**
OF DIRECT CONNECTION TO EXTEND BATTERY LIFE
DUPLICATES FUNCTIONS OF 2 BUTTON MOUSE &
INCLUDES TWO 9 PIN PORTS FOR STD. JOYSTICKS
- CD 1400 CADDY FOR HOLDING CD WITHIN DRIVE **£9.95**
- CD 1401 MEMORY CARD PERSONAL RAM CARD CONTAINING **£79.95**
64K OF MEMORY FOR STORING DATA OR AS A
BOOKMARK FACILITY WITHIN CDTV
- CD 1405 MEMORY CARD A LARGER PERSONAL RAM CARD. 512K OF **£249.95**
MEMORY FOR STORING DATA. ON CDTV

- CBM FLOPPY DRIVE 3.5" FLOPPY DRIVE WITH **£99.95**
CAPACITY. MATCHING BLACK FINISH. SUPPLIED
WITH WORKBENCH DISKS/MANUALS etc.
- CD 1301 GENLOCK PAL BASED VIDEO INTER- **£149.95**
FACE CARD FOR SUPERIMPOSING CDTV IMAGES
OVER A VIDEO SIGNAL PROVIDED BY ANY STD
VIDEO SOURCE
- ROCLITE 3.5" DRIVE CDTV COMPATIBLE AND **£69.95**
AND STYLED IN MATCHING BLACK.

Plus lots of Great CDTV Software in stock!!!

AMIGA SOFTWARE & ACCESSORIES

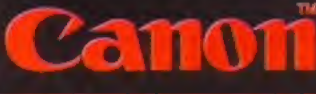
HARWOODS AMIGA PRO-GEN
NEW LOWER PRICE
Complete with FREE Multi-
Cable Connecting Kit!

PROFESSIONAL QUALITY
GENLOCK FOR COMPUTER
AND VIDEO MIXING, AT A
DOWN TO EARTH PRICE!!!
PRO-GEN with
Photon Paint 2.0 **ONLY £89.95**

**MODE SWITCH-BOX FOR PRO-GEN
AND RENDALE 8802 GENLOCKS**
Supplied With Genlock Extender Cable Worth £9.95
Switch-box Switches Between Foreground,
Background, Video And Computer Modes. **£29.95**

- Music-X:** The ultimate software for professional MIDI sequencing. The software includes a configurable librarian and a synthesiser patch editor. All you need to recreate a song can be recalled from one performance file including sequences, MIDI routing, sync setup, keyboard maps & synthesiser or drum machine patch libraries. **NEW LOW PRICES £49.95 or just £69.95 with midi-interface! £24.95 £49.95**
- MIDI INTERFACE (S Port):** In, Out, Through plus 2 switchable thru/out. Inc. 2 cables. **£24.95**
- AMOS:** AMOS allows you to access the power of the Amiga with ease. 500 different commands make AMOS a sophisticated development language. The AMOS animation language allows you to create complex animation sequences. 300 page manual and over 80 example programs **Amos Add on Modules: (BOTH require Amos prog.)**
Amos Compiler £29.95 Amos 3D £34.95
- SuperBase 4:** Most powerful database available for the Amiga. Combines the ease of use of Superbase 2 with a versatile programming language so that you can tailor your data to your own specific needs for club/business/library records etc. **£229.95**
- Lattice C:** An ideal tool for the C programmer whether experienced or a novice. The best way to create applications for the Amiga. Fully supports Motorola chipset. Nearly 300 functions optimised to help the user write the tightest possible code. Includes screen editor. Most Amiga C books are based around lattice. (Requires either 2 floppy drives OR a hard disk drive) **£199.95**
- Deluxe Paint IV:** Paint and animation package, now including HAM mode. (1 Mb. minimum memory or more recommended) **£79.95**
- Vidi, The Complete Colour Solution:** Vidi with RGB Splitter, Frame Grabber & Digitiser. Grabs moving colour video into 16 grey scale frames (up to 16 frames in 1Mb) and digitises from still colour video source in up to 4096 colours in less than 1 second! Requires home VCR or video camera for grabbing. Requires video camera or VCR with perfect pause for digitising. Now comes with Photon Paint 2.0 ABSOLUTELY FREE OF CHARGE!!! **£149.95**
- STEREOMASTER:** High quality 'stereo' sampler (best for sampling instruments etc.) **£39.95**
- KCS POWERBOARD IBM PC EMULATOR** Allows you to run many popular IBM PC compatible software titles on your Amiga or Amiga A500 Plus. Hercules, CGA & Monochrome Video Support. Supports Both 3.5 inch & 5.25 inch Diskettes. Fits into A501 RAM Slot. 8088 XT Processor. Clock/Calendar Included. Acts As 512K RAM Exp. When In Amiga Mode. Includes MS-DOS 4.01, Shell & GW-BASIC, DOS-HELP, & On-Board Memory. Supports 4850 Hard Drive, Mouse/Driver Software Included. WHEN ORDERING PLEASE SPECIFY WHETHER YOUR AMIGA IS A 1.3 OR PLUS VERSION MACHINE. **£219.95**
- KCS POWERBOARD** AS ABOVE BUT WITHOUT MS-DOS 4.01, GW-BASIC, Shell. **£189.95**
- POWER MONO SCANNER COMPLETE WITH POWER SCAN SOFTWARE** 100dpi TO 400dpi. Supports up to 64 grey shades. Throughport for printer etc. Supplied with Power Scan software. allows full screen image editing, interface mode on or off. edit true grey scale and even colour images. **£99.95**
- SUPRARAM RX 500 - 2Mb. to 8Mb. RAM Expansion** 2Mb. RAM Vers **£199.95** 4Mb. RAM Vers **£329.95** 8Mb. RAM Vers **£549.95**
RAM expansion giving massive memory WITHOUT dismantling your Amiga, avoiding the invalidation of warranty. Easily connects to sidecar with bus 'pass-through' for HD's etc.
- MIRACLE PIANO TEACHING SYSTEM - Music Keyboard to connect to your Amiga** **£299.95**
Miracle is the first piano to teach you how to play it. Whether you want help finding Middle C, or want to learn how to play Mozart. Miracles stunning Amiga Software and Midi Keyboard turns learning into FUN. Study Classical, Rock and even Jazz.
128 Built in Sounds Full sized Touch Sensitive keyboard keys Stereo Sound Get even more from your Amiga
Miracle even gives you a recording studio Versions for other computers available too, please ask for details
- NAKSHA MICROSWITCHED MOUSE** **£24.95** **HIGH QUALITY OPTICAL MOUSE** **£32.95**
- COMPETITION PRO JOYSTICK 5000 Black** **£7.95** **ZIPSTICK JOYSTICK** **£11.95**
- COMPETITION PRO STAR JOYSTICK** The ONLY joystick to obtain a 100% rating from a magazine review! **£13.95**
- BLANK DISKS** 10 Genuine SONY 3.5" branded **Only £8.85** 10 Unbranded with library case 3.5" certified **Only £6.95** **3.5" DISK HEAD** **£2.99**
with labels 30 Genuine SONY 3.5" branded **Only £34.95** 200 Unbranded 3.5" certified **Only £79.95** **CLEANER**
10 Genuine SONY 3.5" 1.44Mb Disks **Only £15.95** 1000 DISK LABELS **ONLY £9.95**
- POSSO STORAGE BOXES** **£19.95**
10 piece stackable 3.5" disk storage boxes
- BANK STORAGE BOXES** **£11.95**
10 piece stackable 3.5" disk storage boxes

**MANY MANY MORE ACCESSORIES TOO NUMEROUS TO LIST
ARE ALWAYS AVAILABLE FROM GORDON HARWOODS.
Shown here is just a selection of accessories but, if what
you want is not listed just phone us and ask!!!**



EDUCATION SOFTWARE

DON'T JUST PLAY GAMES WHEN YOU CAN LEARN WITH YOUR AMIGA TOO!

- MICRO MATHS** - 24 easy to use programs for GCSE (O Level) revision or self tuition **£18.95**
- MEGA MATHS** - A 9 level step by step tuition course. For mature beginners. A* Level studies & Micro Maths users **£20.95**
- MICRO FRENCH** - GCSE French tuition or revision course. Covers both spoken & written French **£18.95**
- MICRO ENGLISH** - Complete self-tuition programme to GCSE level **£18.95**
- MICRO GERMAN** - Complete self-tuition programme to GCSE level. Language Programs also suitable for business users to a high standard. **£18.95**
- PRIMARY MATHS** - Ages 3 to 12. Complete 24 Prog. Course. **£18.95**
- SPELL BOOK** - Ages 4 to 6. Developed with the help of a Primary School Head Teacher to aid spelling skills. **£17.95**
- HOMEBASE** - Home storage prog. ideal for those household lists, childrens educational projects, student notes etc. Easy to use "Push Button" controls and a extensive reference manual. **£19.95**
- COMPENDIUM SIX PACK** - 6 Great Educational Progs. for children aged 4-12years of age. Each is designed to keep your child's interest whilst learning. **£29.95**
- KIDS TYPE** - Large characters & colorful graphics helps creation of stories.
- WEATHER WATCHER** - Collect & analyse data using graphs etc. even animate your own weather map! **£19.95**
- CALENDAR QUIZ** - Quiz based time related events.
- WORDS AND NUMBERS** - Put words & sentences in the correct order or group numbers. **GAME, SET & MATCH** - Early learning - shapes colours, numbers, coins, sequences and including a "reaction timer". **WHAT IS IT? WHERE IS IT?** - Learn names & locations of British counties.

Pen Pal

WORD PROCESSOR/DATABASE
With Pen Pal you can mix text, 4096 colour graphics & data in ways no other w/p can! It's handling of graphics is unsurpassed. Pen Pal is the only word processor I tested that will automatically wrap text round graphics...
Amiga World, July '90
£79.95
PEN PAL complete WITH 512K Amiga RAM Expansion only...£99.95!

BOOK SHOP

- AMIGA FOR BEGINNERS - VOL 1 ABACUS BOOKS.** **£12.95**
From unpacking your Amiga to creating your own icons, includes first use of basic and extras disk. NEW revised version covering workbench 1.3 and 2
- AMIGA BASIC INSIDE AND OUT - VOL 2 ABACUS BOOKS.** **£18.95**
Definitive step by step guide to programming Amiga's in basic.
- AMIGA MACHINE LANGUAGE - VOL 4 ABACUS BOOKS.** **£14.95**
Practical guide to learning 68000 assembler language.
- AMIGA DOS INSIDE AND OUT - VOL 6 ABACUS BOOKS.** **£24.95**
Guide to Amiga DOS & CUI. NEW Edition Inc. WB 2.0 (Includes Free Help Disk)
- AMIGA HARDWARE REFERENCE MANUAL-Addison Wesley.** **£21.95**
Written by technical experts at Commodore Amiga Inc, USA... the people who designed your Amiga. Hardware level machine code programming at advanced level. Includes Kickstart 2
- AMIGA. BEST OF TRICKS & TIPS Vol. 17.** (Includes Free Disk) **£32.95**
A complete set of tricks and tips that enable you to do MORE with your Amiga.
- GETTING THE MOST FROM YOUR AMIGA** (without disks). **£9.95**
From Future Publishing, the producers of Amiga Format Magazine and fully updated for 1990 OR... available with 2 HELP DISKS INCLUDED **£13.95**

GORDON HARWOOD HARWOOD HARWOOD Computers
Enquiries & Order Line:
0773 836781

Finance Facilities Available*
Please phone us for information and your personal application pack.

GORDON HARWOOD COMPUTERS
DEPARTMENT ams /G6, NEW STREET,
ALFRETON, DERBYSHIRE. DE5 7BP
TEL: 0773 836781 FAX: 0773 831040

The Closer you look. The Better we look

FREE
Fully Tailored
Dust Cover with all
Dot Matrix Printers

PRINTERS

**CHECK OUR NEW
LOWER PRICES**

All printers in our range include a standard Centronics/Parallel Port for direct connection to Amiga, PC's, Atari ST's, Archimedes etc. With all our printers you'll get a Free Lead to your computer and with Dot Matrix Printers you also get a Free Quality Dust Cover.

The Harwoods Amiga Help Bulletins provided with ALL printers get you going straight away by covering specific Workbench Set Up Parameters etc.

CITIZEN 120D+ 9 PIN MONO - Up to 120/25 cps £134.95
 Very reliable low cost printer with interchangeable interfaces for Centronics/RS232C/serial type (C64 etc.) 2 Year manufacturers warranty

STAR LC20 9 PIN MONO - Up to 150/38 cps £154.95
 Simultaneous, continuous and single 240 x 240 dpi Graphics sheet stationery, great paper handling Multiple font options

STAR LC200 9 PIN COLOUR PRINTER - 185/40 cps £199.95
 80 Column Dot Matrix Push/pull tractor, rear/bottom feeds & Reverse paper feeds Paper park with auto single sheet loading
 16K Buffer, 8 Fonts Micro paper feed Colour & mono ribbons 12 month warranty

CITIZEN SWIFT 9 PIN COLOUR - 160/40cps £199.95
 8K Buffer, 4 Fonts Feed for labels/multi part stationery Push and pull tractor 240 x 240 dpi Colour Graphics 2 Year Citizen warranty

STAR SJ48 INKJET PRINTER £239.95
 64 Nozzle ink jet Optional Ni-Cad battery Comes with AC adaptor Emulates Epson LO /BM Large 28K Buffer Proprietary full compatibility 360 x 360 dpi near laser print quality

CANON BJ10ex NOW AVAILABLE FROM HARWOODS £229.95
 A fantastic near laser quality inkjet printer [spec as SJ48 above]

STAR LC24/200 24 PIN MONO - 220/55 cps £239.95
 Mono version of LC24/200 Colour, same spec except for a smaller 7K buffer

STAR LC24/200 24 PIN COLOUR - 220/55 cps £289.95
 80 Column Dot Matrix Push/pull tractor & rear/bottom feeds 360 dpi - 24 Pin MONO Paper park with auto single sheet loading Micro paper feed 30K Buffer (expandable) Program from front panel 10 Resident Fonts Supplied with mono ribbon No DIP switches Front Panel Pitch Select Reverse paper feed 12 month warranty

NEW 24 Pin CITIZEN 224 COLOUR - 160/53 cps £229.95
 80 Column Dot Matrix with 4 Fonts Push & pull tractor feeds 360 dpi - 24 Pin COLOUR Complete paper parking facilities. 8K Buffer expandable to 32K Supplied with mono & colour ribbons Easy to use front panel controls Full 2 Year Citizen Warranty

NEW 24 Pin CITIZEN SWIFT 24E COLOUR - 180/60 cps £299.95
 80 Column Dot Matrix with 7 Fonts Push/pull/bottom tractor feeds 360 dpi - 24 Pin COLOUR Complete paper parking facilities. 8K Buffer expandable to 32K Supplied with mono & colour ribbons Easy to use LCD panel controls Full 2 Year Citizen Warranty

STAR XB 24 PIN COLOUR RANGE... XB24-200 and XB24-250 - 275/80 cps
 Exceptional print quality 4 x 48Pin super letter quality fonts 14 x 24Pin near letter quality fonts Buffer: 29K(XB24/200) & 76K (XB 24/250) 360 x 360 dpi Colour Graphics 12mths on-site warranty (UK Mainland)

HEWLETT PACKARD PAINTJET COLOUR A4 INKJET £579.95
 For presentation graphics/OTR, CAD and technical/scientific applications Parallel/Centronics or Serial RS232C I/F (specify with order, MAC option available) A full page of colour graphics in 4 minutes (typical) Will print transparencies Non impact printing, virtually silent, 43dba 1Yr on-site warranty (UK Mainland)

STARSCRIPT - 4ppm POSTSCRIPT COMPATIBLE LASER £999.95
 A4 Laser Printer, will connect to PC, Amiga, Atari ST, Macintosh etc.
 300 DPI, 2Mb. Upgradable to 5Mb. Complete with "StarScript" Serial & Parallel I/F Emulations inc: HP Series II, Epson (Stars version of postscript) Appletalk I/F for Macs EX800, IBM Proprinter & Diablo 630 49 quality fonts 1Yr on site warranty (UK Mainland)

PRINTER RIBBONS

PRINTER	PRINTER TYPE	BLACK RIBBON	BLACK RIBBON '8X PACK'	COLOUR RIBBON	COLOUR RIBBON '8X PACK'
CITIZEN 120D+	BLACK ONLY	£4.95	£24.95	N/A	N/A
CITIZEN 124	BLACK ONLY	£4.95	£24.95	N/A	N/A
CITIZEN SWIFT 9	BLACK/COLOUR	£4.95	£24.95	£16.95	£99.95
CITIZEN 24/24E/224	BLACK/COLOUR	£4.95	£24.95	£16.95	£99.95
STAR LC10/28/2	BLACK/COLOUR	£4.50	£24.95	£6.90	£36.50
STAR LC200	BLACK/COLOUR	£6.95	£36.95	£12.95	£69.95
STAR LC24/200	BLACK/COLOUR	£8.95	£49.95	£14.95	£74.95
STAR XB RANGE	BLACK/COLOUR	£8.95	£49.95	£14.95	£74.95
STAR SJ48 INK CARTRIDGE	BLACK ONLY	Also compatible with Apple Stylewriter and Cannon BJ10ex Bubblejet			£15.95ea.

PRINTER ACCESSORIES

Citizen 120D+ Sheet Feeder	£88.95	Star LC20 Auto Sheet Feeder	£74.95	Hewlett Packard PaintJet Original Printer Accessories...
Citizen 120D+ Parallel Interface	£48.95	Star LC24-10 32K Buffer	£57.95	Black Ink Cartridge £24.95
Citizen 120D+ CSM C64 Serial Interface	£78.95	Star LC24-10 Auto Sheet Feeder	£74.95	Colour Ink Cartridge £29.95
Citizen 124D 32K Buffer	£12.95	Star LC10-900 Automatic Sheet Feeder	£78.95	Single Sheet Printer Paper £21.95
Citizen 124D Semi-Auto Sheet Feeder	£39.95	Star LC 24-200 32K Printer Buffer	£34.95	Z-Fold Printer Paper £19.95
Citizen 124D Automatic Sheet Feeder	£79.95	Star LC 24-200 Auto Sheet Feeder	£74.95	Transparency Paper: Pack of 50 Sheets £32.95
Citizen 124D Printer Stand	£24.95	Star SJ48 Automatic Sheet Feeder	£54.95	
Citizen Swift 9 Semi-Auto Sheet Feeder	£78.95	Star SJ48 Ni-Cad Battery	£39.95	
Citizen Swift 9 Automatic Sheet Feeder	£79.95	Star XB 24-200 Full Tractor	£34.95	
Citizen Swift 9 Printer Stand	£24.95	Star XB 24-200 Font Cart-Styles TBA	£39.95	
Citizen Swift 9X Printer Stand	£34.95	Star XB 24-200 128K Printer Buffer	£99.95	
Citizen Swift 9X Automatic Sheet Feeder	£109.95	Star XB 24-200 Dual Bin Sht. Feeder	£114.95	
Citizen Swift 24 30K Printer Buffer	£13.95	Star XB 24-250 Full Tractor	£34.95	
Citizen Swift 24 Semi-Auto Sheet Feeder	£38.95	Star XB 24-250 Font Cart-Styles TBA	£39.95	
Citizen Swift 24 Automatic Sheet Feeder	£79.95	Star XB 24-250 128K Printer Buffer	£99.95	
Citizen Swift 24 Printer Stand	£24.95	Star XB 24-250 Auto Sheet Feeder	£174.95	
Citizen Swift 24X Auto Sheet Feeder	£139.95	Star XB 24-250 Dual Bin Sht. Feeder	£148.95	
Citizen Swift 24X Printer Stand	£34.95			

BUY TEN GREAT GAMES WITH ANY DISPLAY FOR JUST £10!!

MONITORS AND MONITOR TV'S

CM8833II INCLUDES FREE... £19 STEALTH FIGHTER

Harwoods stock a complete range of both Monitors & Monitor TV's to give you your perfect solution to the type of display to buy.

PHILIPS CM8833/II 14" Stereo High Resolution Colour Monitor £219.95

The ever popular 14-inch Philips CM 8833 MkII. Its versatility means you not only get excellent colour graphics & text performance with a wide range of personal computers, but when connected to a VCR , you get an amazing 600 pixel TV picture. With the 8833 MkII, Harwoods give you the complete set up, to get you going straight away... Monitor, RGB picture and Stereo Audio Cables, Tailored dust cover, and 12 Months on site service warranty. RGB/AD, TTL Composite. Video & stereo audio inputs Can be used as a TV with VCR or Tuner Also as a Video Camera display monitor Retractable stand Twin Stereo Speakers Headphone Jack Socket FREE lead for your computer FREE 12 Month on site service warranty.

COMMODORE 1084S 14" Stereo High Resolution Colour Monitor £249.95

Commodore's Own Stereo High Resolution Colour Monitor with... RGB/A/TTL, Composite. Video/Audio Inputs Can be used as TV with VCR or tuner. Twin Speakers for stereo output Supplied with cables for A500/600, CGA PC, IC16-64-128.

PHILIPS 15" FASTEXT TELETEXT TV MONITOR £249.95

SUPERB DEFINITION PHILIPS MONITOR TV. IDEAL FOR AMIGA OR CDTV USERS, GIVING FOR THE FIRST TIME TRUE MONITOR QUALITY FROM A FULL FEATURE TELETEXT TV AT AN AFFORDABLE PRICE! LOOK AT THE FEATURES...
 Direct Scart Connector for Amiga, CDTV, VCR OR SATELLITE RECEIVER RGB/AD, Composite Video & audio inputs FULL TELETEXT FACILITIES (FOR THIS FACILITY EXTERNAL AERIAL SHOULD BE USED) Headphone Jack Socket FULL TWO YEAR GUARANTEE 2000 CHARACTER HIGH DEFINITION FST TUBE SUPPLIED WITH LOOP AERIAL REMOTE CONTROL FREE lead for YOUR computer (IF YOU WOULD LIKE THE MONITOR TV IN OUR PACKS 2, 3, AND POWERPRO, AT JUST £20 EXTRA, TO REPLACE THE 8833II, SIMPLY ADVISE US AT THE TIME OF ORDERING)
It's important to remember that most TV Monitors, are still first and foremost televisions, meaning that their average 400 pixel tube display 50% lower resolution than a monitor) cannot be guaranteed to display 80 column text clearly without risking eye strain. If choosing a Television Monitor ensure it has the latest 2000 character tube capability, meaning it can handle the Amiga's 80 characters, by 25 line output clearly.

10 GREAT GAMES WITH YOUR TV OR MONITOR FOR ONLY £10 (ie. These games are available with Harwoods Amiga Packs 1, 2, 3, & Powerpro...see details on pages 1 & 2 of this ad!!!

AMIGA DISK DRIVES

Cumana CAX354 3.5" External 2nd Drive. £54.95
 Features include Long connecting cable Access Light 1Mb. (880K Formatted) Capacity Throughport Enable/Disable Switch Compatible with Amiga500/600/1000/1500/2000/3000 and CDTV
NOW SUPPLIED WITH A FREE 3.5" Disk Head Cleaner

GVP 52-420Mb HARD DISK DRIVES WITH MEMORY EXPANSIONS OF UP TO 8Mb.
 Capacities of 52 to 420Mb Connects to sidecar bus (L/H side A500/A500 Plus) Autoboots with Kickstart 1.3/2.0, boot enable/disable switch Up to 8 Mb of RAM SCSI Port allows up to 7 other devices to be connected Supplied with easy to use software 2 Year Warranty Dedicated PSU Mini slot for future expansion PC-AT Emulator planned to be available for 1992

RAM SIZE	GVP AMIGA A500 HARD DRIVES			GVP AMIGA 1500/2000 HARD DRIVES				
	52Mb.	120Mb.	240Mb.	RAM SIZE	52Mb.	120Mb.	240Mb.	420Mb.
0Mb.	£349.95	£459.95	£729.95	0Mb.	£289.95	£409.95	£639.95	£1169.95
2Mb.	£419.95	£529.95	£799.95	2Mb.	£359.95	£479.95	£709.95	£1239.95
4Mb.	£489.95	£599.95	£869.95	4Mb.	£429.95	£549.95	£779.95	£1309.95
8Mb.	£629.95	£739.95	£999.95	8Mb.	£559.95	£679.95	£899.95	£1429.95

CALL FOR MEMORY UPGRADE PRICES IF YOU ALREADY ARE A GVP OWNER!

AMIGA MEMORY EXPANSION HARWOODS AMIGA 1Mb PRO-RAM PLUS

ADD MORE POWER TO YOUR AMIGA 500 PLUS WITH A FULL 1Mb. UPGRADE!!!

- ★ 1Mb. RAM expansion for the Amiga 500 Plus
- ★ Gives a total of 2Mb. of RAM
- ★ Easily fitted without any dismantling in the trapdoor expansion slot underneath Amiga. DOESN'T invalidate your warranty!
- ★ Low power consumption ★ 2 Yr Guarantee!

NEW LOWER PRICE

A GREAT NEW OFFER FROM HARWOODS

Delg... **£34.95**

0.5 Mb PRO-RAM

- ★ Compatible with Amiga A500 and 500 Plus
- ★ Gives A500 a total of 1Mb Memory + Clock
- ★ Gives 500 Plus a total of 1.5Mb Memory

Delg... **£29.95**

LOOK OUT FOR THE A600FD/HD UPGRADE AVAILABLE SOON!!!

GIVES YOU...
 • Free Courier Collection* and Delivery for warranty service of any major hardware item 17 years old
 • 30 days faulty exchange for new
 • Free standard delivery service*
 • Exclusive ex-directory technical support line for expert assistance
 • Free cable & dust covers with applicable hardware products
 • Over 10 years of expertise with Commodore products
 • Most competitive overall prices
 • Add all these up - compare with the rest - and you'll see why we are THE SUPPLIER that over 50,000 satisfied Amiga owners have already chosen
 *Mainland UK

Compare our Service

Before you choose from whom to purchase, please phone us. We are always happy to discuss your requirements, and answer any queries you may have...

ORDER BY PHONE Phone our Order Hotline with your Access, Visa, Mastercard, Switch or Lombard Creditcharge Card quoting number & expiry date (Dixons, Currys, NASCR and other 'store' cards are Lombard Creditcharge and are accepted by us).

ORDER BY POST Make cheques/bankers building society drafts or postal orders payable to GORDON HARWOOD COMPUTERS. (Personal business cheques take 7 days to clear from day of receipt whereupon your order will be despatched). Please send Name, Address, and most importantly if possible, a Daytime Telephone Number along with your order requirements. Please check you are ordering from one of our latest advertisements before posting (phone if you require confirmation). Please remember that for example many September publications appear during August, therefore prices you see may have changed (either up or down).

FREE POSTAL DELIVERY FREE within 14 working days, UK Mainland only. OR: **COURIER SERVICE** Add £6.50 per major item for next working day delivery, UK Mainland most regions.

EXPORT ORDERS Most items are available at TAX FREE PRICES to non UK residents and service personnel when visiting (export shipment). Please contact us.

REMEMBER AFTER YOU'VE BOUGHT FROM HARWOODS WE'LL STILL BE HERE!

TECHNICAL SUPPORT You will be given our Exclusive Technical Support Phone Number to call should you require any help or advice on any aspect of the system you have purchased.

REPLACEMENTS Items proving faulty within 30 days of purchase are replaced with NEW UNITS unless otherwise stated. For the whole guarantee period, warranty service will be completely FREE OF CHARGE.

COLLECTION FACILITY Any computer, monitor or printer requiring warranty service can be collected from your home FREE OF CHARGE during the guarantee period (UK Mainland only) and a FAST turnaround is GUARANTEED by our OWN ENGINEERS!

FULL TESTING PROCEDURE All computers are tested prior to despatch, and all items are supplied with mains plug and leads as required - just connect up and use straight away.

REMEMBER WE'RE NOT JUST ANOTHER MAIL ORDER COMPANY!

All listed prices are what YOU PAY, and there are NO HIDDEN EXTRAS. VAT and postage are included, and prices are correct at time of going to press (Pack details may vary from time to time). Offers are subject to availability and to being the latest advertised packs and prices. Our offers are NOT supplied on a trial basis. E&OE.

FINANCE FACILITIES tailored to suit your needs. Written details on request. Gordon Harwood Computers offer facilities to purchase using our budget account scheme, APR 35.8% (Variable). Available to most adults of eighteen years or over, subject to status. Simply phone or write and we will send you written details along with an application form. Applications, required in advance, available to full time U.K. mainland residents and overseas British foreign born personnel. Showroom visitors, please ask for details of our in-store "Instant Account". Written quotations on request.

If you are already the holder of a Lombard Credit Charge Card you can use this to purchase from us (subject to your personal card limit)

VISIT OUR SPACIOUS SHOWROOM: Please pay us a visit where our full range of advertised products & more, is available at the SAME COMPETITIVE PRICES, in the pleasant surroundings at our purpose built showroom (see "opening times") There's plenty of FREE parking close by too!

OPENING TIMES
 9.00 until 5.00 Monday to Saturday
 9.00 until 4.00 Wednesday
 Closed on Sundays



GORDON HARWOOD Computers

Enquiries & Order Line:
0773 836781

Finance Facilities Available*
 *Please phone us for information and your personal application pack.

GORDON HARWOOD COMPUTERS
 DEPARTMENT a m f IG6, NEW STREET,
 ALFRETON, DERBYSHIRE, DE5 7BP
 TEL: 0773 836781 FAX: 0773 831040

HARWOOD'S BRILLIANT 1Mb AMIGA 600FD MEGA GAMES PACK 2

That's right you get the fantastic Amiga & ALL THE EXTRAS detailed in Harwoods Mega Games Pack 1 AND you also get...

THE PHILIPS CM8833/II STEREO COLOUR MONITOR

MEGA GAMES PACK 2

MONITOR GAMES PACK

OR... YOU CAN CHOOSE A PHILIPS MONITOR TV for just £20 EXTRA! See page 3 for FULL details of this remarkable Fast Text Monitor TV

£619.95 including VAT

AG600HD PACK 2 FOR AN EXTRA... £79.95 including VAT

That's right here Games Pack 2 with an Amiga 600FD with 2MB. Hard Drive in place of the AG600FD. Note: C&M Game & D-Port is NOT supplied with AG Pack.

Our monitor section on page 3 gives full details for your choice of Philips Monitors & Monitor TVs

HARWOOD'S GREAT 1Mb AMIGA A600FD MEGA GAMES PACK 3

That's right you get the fantastic Amiga & ALL THE EXTRAS detailed in Harwoods Mega Games Pack 1 (far left) AND... then you also get...

THE SUPERB PHILIPS CM8833/II STEREO COLOUR MONITOR

Our monitor section on page 3 gives full details for your choice of Philips Monitors & Monitor TVs

Plus... THE SUPER STAR LC 200 COLOUR PRINTER...

185-40 cps. Full Colour & Pin NLO Dot Matrix Printer with a FREE Dust Cover & cable to your Amiga. (See printer panel for details)

MEGA GAMES PACK 3

MONITOR AND PRINTER PACK

OR... YOU CAN CHOOSE A PHILIPS MONITOR TV for just £20 EXTRA! See page 3 for FULL details of this remarkable Fast Text Monitor TV

£799.95 including VAT

AG600HD PACK 3 FOR AN EXTRA... £79.95 including VAT

That's right here Games Pack 3 with an Amiga A600FD with 2MB. Hard Drive in place of the AG600FD. Note: C&M Game & D-Port is NOT supplied with AG Pack.

If you wish, REPLACE THE LOGO WITH A CITIZEN SWIFT'S COLOUR AT NO EXTRA COSTS! OR... IF YOU PREFER A JAPAN COLOUR PRINTER, JUST CHOOSE FROM OUR RANGE & ADD THE DIFFERENCE IN PRICE. BETWEEN STARS LOGO & YOUR CHOICE. See page 3 for details

"IT'S THE BUSINESS"

A TRULY PROFESSIONAL PACKAGE SPECIFICALLY FOR THE BUSINESS MINDED AMIGA USER. THIS ONE SHOULD FULFILL EVERY AREA OF HOME BUSINESS YOU'RE LIKELY TO NEED!

MEGA GAMES PACK

POWERPRO PROFESSIONAL PACK

OR... YOU CAN CHOOSE A PHILIPS MONITOR TV for just £20 EXTRA! See page 3 for FULL details of this remarkable Fast Text Monitor TV

AMIGA A600FD WITH 1Mb. MEMORY

PHILIPS CM 8833/II STEREO COLOUR MONITOR

See Monitor Panel on Page 3 for Details

STAR LC200 9 PIN NLO FULL COLOUR PRINTER

See Printer Panel on Page 3 for Details

ADD A CUMANA CAX 354 2ND DRIVE FOR JUST £50

£869.95 including VAT

AG600HD POWERPRO PACK FOR AN EXTRA... £79.95 including VAT

That's right here a Powerpro Pack with an Amiga A600FD with 2MB. Hard Drive in place of the AG600FD. Note: C&M Game & D-Port is NOT supplied with AG Pack.

Plus...
 1. A GREAT CBM GAME
 2. DELUXE PAINT III Now with ANIMATION
 3. MICROSWITCHED JOYSTICK
 4. 15 BLANK 3.5" DISKS
 5. DISK LIBRARY CASE
 6. MOUSE MAT
 7. 3 TAILORED DUST COVERS

PRIMARY & JUNIOR PACK A

Get your children off to the right computing start with this software learn and play Compendium 6 pack...

EDUCATION

PACK A

£69.95 including VAT

GCSE'O' LEVEL PACK B

GCSE examination level studies on your Amiga computer that's fun!

EDUCATION

PACK B

£89.95 including VAT

A GREAT EDUCATIONAL PACK FOR YOUR CHILDREN AT A FRACTION OF THE NORMAL COST



The Closer you look, The Better we look.

CHEETAH

BUG FILE



- 125+**
- Four ultra-sensitive fire buttons
 - Ergonomically designed control handle for supreme comfort
 - Auto-fire function
 - Heavy duty base with strong stabilising suction cups
 - +2/+3 selector connector
 - 8 directional control
 - Automatic centering
 - High impact robust body
 - Compatible with Sinclair Spectrum +2/+3, Commodore, Atari and Amstrad computers and video game systems.
 - **Sega Master Series version available**
- ONLY £9.99**



- STAR PROBE**
- Four ultra-sensitive microswitched fire buttons
 - Ergonomically designed custom control handle for supreme comfort
 - Auto-fire function
 - Indestructible metal shaft
 - Ultra-light 8 directional microswitched control
 - Heavy duty base with strong stabilising suction cups
 - +2/+3 selector connector
 - Automatic centering
 - High impact robust body
 - Compatible with Sinclair Spectrum +2/+3, Commodore, Atari and Amstrad computers and video game systems.
- ONLY £14.99**



- MACH 1**
- Four ultra-sensitive fire buttons
 - Ergonomically designed control handle for supreme comfort
 - Auto-fire function
 - Indestructible metal shaft
 - Ultra-light 8 directional microswitched control
 - Heavy duty base with strong stabilising suction cups
 - Automatic centering
 - High impact robust body
 - Compatible with Commodore, Atari and Amstrad computers and video game systems.
- ONLY £12.99**



- EXTERMINATOR**
- Two ultra-sensitive fire buttons
 - Ergonomically designed control handle
 - 8 directional control
 - Automatic centering
 - Heavy duty base with strong stabilising suction cups
 - High impact robust body
 - Compatible with Commodore, Atari and Amstrad computers and video game systems.
- ONLY £6.99**



- TURBO FIGHTER**
- Ergonomically designed for supreme comfort
 - 2 ultra-sensitive fire buttons
 - Heavy duty base with strong stabilising suction cups
 - Robust clamp for secure desktop mounting
 - 8 directional control
 - Automatic centering
 - High impact rugged body
 - 'X' and 'Y' axis trim controls
 - Additional Joystick B 'Y' axis control (for PC users only)
 - Analogue to digital converter included for compatibility with PCs as well as Amiga, C64, Atari ST, Amstrad CPC etc.
- ONLY £49.99**



THE BUG

- Ergonomically designed body for supreme comfort
 - Suitable for right or left hand
 - 2 ultra-sensitive microswitched fire buttons
 - Auto-fire function
 - 8 directional microswitched control
 - Indestructible metal shaft
 - Automatic centering
 - +2/+3 selector connector
 - Compatible with Sinclair Spectrum +2/+3, Commodore, Atari and Amstrad computers and video game systems.
- ONLY £14.99**

- 12 month warranty on all products shown.
- Older computers may require interfaces and/or adaptors - not included.
- Prices include VAT, postage and packaging.
- Dealer enquiries welcome.
- Cheetah products available from branches of

THE NEW GENERATION IN JOYSTICK TECHNOLOGY

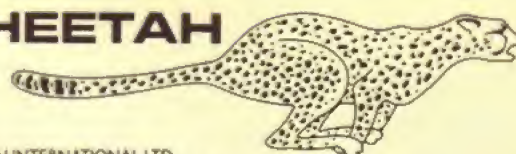
Argos CURRYS SUPERSTORE
 Dixons Harrods
 John Menzies WH SMITH
 Tandy TOYS R US

High Street stores and all good computer shops.

THE TORTOISE

- Three ultra-sensitive fire buttons
 - Ergonomically evolved control shell
 - Automatic centering
 - Heavy duty body with strong stabilising suction feet
 - 8 directional movement
 - Cage sold separately
 - Versions include ZX Spectrum, 16K, 48K, 128K, (interface sold separately), +2, +3, C64, Amstrad, Atari, Sega and Nintendo.
- ONLY £9.99**

CHEETAH



CHEETAH INTERNATIONAL LTD
 Cheetah House, Bedwas Business Park, Bedwas, Gwent NP1 8DU
 Tel: 0222 - 867777 Fax: 0222 - 865575

All specifications and prices subject to change without notice.

Screenplay

Greetings. You've reached the section of the mag where the fur flies, the critics crush and the games go ga-ga. In the name of science, please don't turn the page without first washing your hands and kissing the blarney stone.



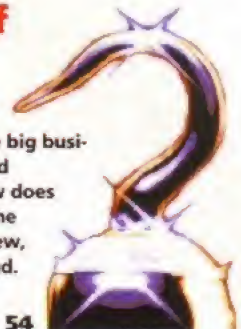
We interview Sid Meier, creator of MicroProse's new *Civilization*, and find out what it takes to make a good god-game. Does Sid have the secret? Find out in the full review and check up on the best god-games money can buy

Page 48



The Hook of the hype

We're living in a material world, and film-licences are big business. Do licensed games and in-game adverts work? How does Ocean's *Hook* compare to the film? See our in-depth review, and make up your own mind.



Page 54

THE BEST OF THE REST



Crazy Cars 3

Does the French flyer hold the pole position of Amiga racing games? We take it for a few high-speed laps around the track before the cops can catch us. Page 64

MegaTraveller 2

The space-cadets role-playing game makes it to its second incarnation on the Amiga. Is it any better this time? Join with us as we enlist in the Imperial Armed Forces. Page 68

Mega Fortress

Fancy taking a decrepit old B-52 up for a flight? Mindscape have converted one to near-stealth capability, but we reckon it'll never get off the ground - are we right? Find out on... Page 74



Push Over

You've seen the adverts, you've eaten the crisps, and if the tactics have worked, you've pestered your parents for an A600. But is the game any good? Page 84

WHO CARES - WINS

What's different about Amiga Format reviews? **Neil Jackson**, Screenplay's Editor, tells you...

"It's another month, and as always there are plenty of games shouting at you from their shelves. That's where we come in - to help you make the right decision. We give you the real truth about the games we test - there are no incentives, no back-handers and no threats that can change an *Amiga Format* reviewer's opinion. If a game's bad, it's bad - whoever made it!

"We're different to other magazines because we don't see any point in reviewing games before they're finished. Instead, we wait until we have the finished goods in our hands. That way we can look at it from the most important point-of-view there is: YOURS!

"We're committed to bringing you the most complete picture, based on the full facts. We've all been burned from time to time, and we know how it feels, so we're determined to make sure that *Amiga Format* lives up to its reputation as the games-players' champion. If we can stop just one person from wasting their money on a duff game, we're happy. So trust us - we're the software doctors..."

THE REVIEWERS

So what are we playing in our spare time this month? Here's what keeps us going...

MAFF EVANS

"*Kick Off 2*. I got into it while I was researching for background material on *Sensible Soccer*."

CLARE HODGSON

"I've been having a bash at *Volfied* because it's still great fun and I like it."

MARCUS DYSON

"I'm still playing *Fire and Ice* a lot, and also *James Pond Robocod*. Sad, isn't it?"

ANDY NUTTALL (MRS)

"Blimey! I thought I had to play games all day - not all night as well! *Monkey Island 2*, then."

TIM HOWELL

"*Rugby World Cup*, because I'm a Kiwi and I've been reliving beating the Aussies again."

ASAM AHMAD

"I reckon *Links* is the the deal for me - it's so realistic I can almost believe I've been let out of my cage for a day."

JAMES LEACH

"You'd think I'd be bored with it, but I'm not. I'm going to get married to *Formula 1 Grand Prix!*"

TIM SMITH

"I've been up to my ears in *Lure of the Temptress* this month. It's good to see a real challenge to all the Lucasfilm adventures."

PAUL TYRRELL

"*Crazy Cars 3* is where it's at for me! It's smooth and fast, and I can't put it down."

ED RICKETTS

"I'm having a ball with *Sensible Soccer*, but *Civilization* is my fave, it's just so big."

JON PILLAR

"Virgin's *Lure of the Temptress* is really good - there are lots of little touches of humour."

Maybe you've seen his name on a *Railroad Tycoon* box, and wondered just who the hell he is. But now you need wonder no more. Sid Meier, games-designer and programmer extraordinaire from MicroProse's USA headquarters, talks to Neil Jackson about how a classic game is made.

In the world of games, there have been few games which give you the world to play with. Sid Meier's *Civilization* offers you the chance to lead a vast range of cultures on to global supremacy, if you've got the time.



AMIGA FORMAT

The dawn of Civilization

48

SEPTEMBER 1992

☞ What gave you the idea for your latest game, *Civilization*?

Sid Meier: "I was basically trying to do another constructive game, or god game as they're called sometimes. You know the type of thing: you start with an empty world, you create something of your own construction, and develop it. We [that's Sid and his colleague, Bruce Shelley - more information on him later...] were looking for ideas, and *Civilization* seemed natural - it fit the mould and gave you plenty of room for growth and long-lasting playability.

It has several threads, or role-playing 'hats' as I call them - like in *Railroad Tycoon* which put you in charge of operating, financing and constructing a railway. *Civilization* has you playing in the role of military commander, economic planner, scientific researcher, politician and city mayor - that's enough to give you plenty of scope and possibilities. It's also a subject that everybody knows, or thinks they know, something about before they play, and that helps people get started more easily."

☞ God-games are always more complicated to play than your basic arcade or racing type of games, but this doesn't necessarily mean that they're any more difficult to make. How long did it actually take, from conception to completion, to design and create *Civilization*?

Sid Meier: "We spent two-and-a-half years on the entire project, which does seem like a pretty long time. But the first year was used up just thinking about the idea and developing it. The actual work, the programming and testing, took around a year and a half after that."

☞ What was the most difficult part of the concept to implement?

Sid Meier: "The worst bit was right at the very beginning. I really wanted it to be more like



Sid Meier: "We're very much games-players here at MicroProse, so I write the kind of games that I want to play which aren't already out there yet."

Sim City: more automatic, where you do broad brush-stroke kinds of things that have a global effect. The trouble was that in practice, you end up feeling as if you're only watching, and not really getting to grips with something that's supposed to be your own.

"So we changed our *Civilization* idea, simplifying the game so you felt like you owned and understood what was going on and knew how it all fitted together. After that, the game's many causes and effects were easier to cope with. But it meant we had to make the jump from the big global model, like *Sim City*, to a far more explicit and involved situation, like *Civilization*. That's a lot more difficult to get working."

☞ Were there any ideas which you would have liked to include in *Civilization*, but didn't, or couldn't for whatever reason?

Sid Meier: "I wanted you to be able to form alliances and non-aggression pacts with the other civilisations. This would have enriched the political aspects of the game. But it was far too difficult to manage - if the allies wanted to break the treaties and you didn't, then you'd end up blaming the designer - not the other civilisations - so in the end we just had to simplify the whole political situation so that it was easier, but less rich.

"Also, the thing everybody was asking for was multi-player capability. The trouble was that *Civilization* wasn't designed with this in mind and it would have been a major redesign to get it operating. The whole thing just becomes too big - but it's still an idea we're thinking about for a game in the future, maybe.

"We also wanted to get more modern technology units in the game - things like nuclear submarines and stealth planes and so on. The trouble was, the further we brought forward the technology, the longer you had to be able to play the game, or the new things you'd just bought would only have a short life before the game ended. When we started putting in modern units, people started asking for futuristic units, like space-fighters and so on, and then we just simply had to call it a day - we had to end the game somewhere, and we'd already reached 2020 AD!"

☞ What's your next design likely to be about? We've heard rumours about dinosaurs, human-body defence systems, and North Pole or Everest explorations. Are you working on any of these now?

Sid Meier: "We're still working on ideas and we haven't settled on anything certain just yet."



The Amiga Format UNOFFICIAL top ten god-games

1 Railroad Tycoon

by Sid Meier for MicroProse



It's been surpassed by *Civilization*, and it's a year or so out of date now, but I don't care – there's something about *Railroad Tycoon* which none of the other games can match: a total lack of violence. Sure, you get a chance to be really horrible to your opponents, but you can only hit them where they hurt the most – the wallets. But it's still the best test of your brain's ability.

92% *Amiga Format* 22

2 Civilization

by Sid Meier for MicroProse

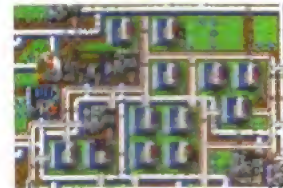


Perhaps this one's only second because I haven't had time to play more than a few games yet. The acid test is whether or not it's still fun six weeks later – so far it shows all the right signs. With a complete game weighing in at around a week's worth of misspent evenings, you're going to have plenty to get on with here.

94% *Amiga Format* 38

3 Sim City

by Maxis via Infogrames/Digital Integration



This is generally regarded as 'the one that started it all' – the first god-game. It's got a lot of good ideas which have since been pinched and borrowed a hundred times over, so it deserves some recognition for that. But it tends to lose its shine after a few plays – and the bug-ridden traffic will drive you nuts.

92% *Amiga Format* 6

4 Populous 2

by Bullfrog for Electronic Arts

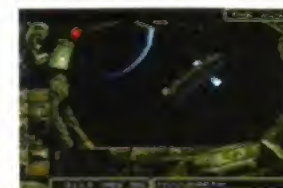


A cross between *Sim City* and *Civilization* with three dimensional graphics thrown in for free. It's not quite got the size of either of those titles, but it's got just as much depth and variation. There are hundreds of strategies to try out against a variable-difficulty computer player – providing a guaranteed long-term interest. There's even a null-modem link so two humans can play on different Amigas – an excellent way to find out who your friends are!

95% *Amiga Format* 30

5 Deuteros

by Ian Bird for The Disc Company



A space-age god-game in a class of its own. Hours of strategy and decision-making, and a story which unfolds as you progress. It's not as involved as the rest, but the feeling of all-powerfulness and empathy for your subjects make it justifiably a god-game nonetheless. Drags you in and doesn't let go.

95% *Amiga Format* 21

6 Sim Ant

by Maxis via Ocean



They may not be worshippers, but they're still your flock. *Sim Ant* is a strange god-game, but it qualifies because your main aims are the same: go forth and multiply, hang on to what you've got, and spread the word. A little confrontational, and a wee bit creepy-crawly for some, but it still requires you to think, plan and act with accuracy. Its downfall is its predictable nature.

73% *Amiga Format* 36

7 Millennium 2.2

by Ian Bird for Electric Dreams



The predecessor to *Deuteros*, *Millennium 2.2* is another sci-fi god-game. Concerned with building an empire through our solar system, you begin to feel you're all-powerful. But you're not quite (or there'd be no challenge). You find you're not alone in space, and you have a battle for survival on your hands.

86% *ST/Amiga Format* 12

8 Populous

By Bullfrog for Electronic Arts



Not as well-polished as the sequel, but then it's slightly less difficult to master. It has an option for playing via a null-modem link, and is at its best when played this way – humans are much easier to get worked up about, although the computer is a real meanie. It's got a place in any god-game collection.

85% *Amiga Format* 30

9 Utopia

by Celestial Software for Gremlin Graphics

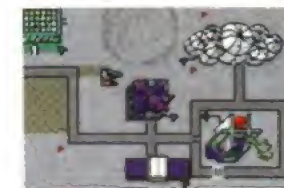


A cross between almost all the other games! It's got *Populous*'s 3D displays, with *Sim City*'s building, *Civilization*'s military and domestic units, and *Railroad Tycoon*'s financial management. To top it all, it's set on a remote planet where you have to create and support a colony, rather like *Deuteros*. But you can't actually see your rival's city, which makes him seem a bit disembodied and reduces the appeal.

84% *Amiga Format* 28

10 Moonbase

By Wesson International for Mindscape



Just scrapes in by virtue of its playability and the time needed to complete it. It's got many elements from *Sim City*: the ability to build a base from blocks, links and connections that need to be routed properly to get it working, and a population to increase and control. It's not gold dust, but moon dust is pretty valuable.

Not reviewed.

We're still working on language translations of *Civilization* for Germany and other countries, so we haven't got to the stage where we're fully clear of the last game yet!

"We play around with ideas until one starts to get momentum. Often, ideas sound good at the start, but after a couple of weeks bashing them around, it's obvious that they're not going to work, so we go back to square one. I guess you could say that we're still in our exploration phase!"

☞ Of the MicroProse designs, which one was your favourite in terms of design success and pride in the finished result?

Sid Meier: "Often it's simply the last one I did. *Civilization* I'm very happy with at the moment. I learned a lot from *Railroad Tycoon* and so that's still got a lot of good memories for me. It has a few rough edges (which I think I've improved upon since), but I still enjoyed it a great deal.

"*F-19 Stealth Fighter* (going back a bit) still pleases me, as do *Pirates* and *Silent Service*. They're all old games now, but I still have a special place for them. I guess they're all my favourites. Some get almost all the way there, some get part of the way there, but *Civilization* seems to have topped them all. At least for me it has, anyway."

☞ Can you still bring yourself to play any MicroProse games, or are you fed up with them all now?

Sid Meier: "I seldom go back and play my old games, because I play them to death while I'm

Continued on page 51

writing them. If I couldn't program and play games at that time, I would play a few games, once in a while. I occasionally go back and play *Covert Action* which I still like to play for its own sake. I prefer to write and develop at the same time, because I get the most fun doing that. This is probably because when you're playing an old game, or someone else's game, you can't change something if you don't like the way it works. That can be a bit frustrating, so I tend to avoid it."

☞ In all the recent MicroProse manuals, wherever you're mentioned, there's usually a reference to a guy called Bruce Shelley. What part did he play in the *Civilization* project?

Sid Meier: "Bruce does the things that I don't like or want to do: things like spelling, checking facts, digging up the research material and so on. He's heavily involved in the brainstorming of the original ideas and chips in a wealth of new material, some of which gets implemented, some of which doesn't. He's good at taking incomplete ideas and seeing past them – not getting caught up in the fact that 'that bit isn't working, or this bit's missing'. He can visualise the end result that we're working towards, and criticise the project in that context. He also writes the manual and does huge amounts of playtesting. I do all of the piecing together and the programming – Bruce does all the research and fact-gathering, the real work!"

☞ In your opinion, what makes a good strategy game?

Sid Meier: "I like to give people decisions to make – the kind of decisions that you might change your response to the next time around, just to see what happens. For example, you might make an alliance in one game, and then try an attack, just to find out what it's like."

"Another factor I like to find in a game is accessibility – it's got to be centred on something that people might already know something about. If you have some knowledge about it, you'll think you know as much (if not more) than the manual."

"We're very much games-players here at MicroProse, so I write the kind of games that I want to play which aren't already out there. While I'm developing my games, around half the time is spent just playing them. This is, for me, the most interesting and important part of the whole process."

☞ Finally, what are your all-time favourite computer strategy games?

- Sid Meier:**
- 1 *Sim City*
 - 2 *Empire* (PC only, I'm afraid)
 - 3 Any of the SSG strategy war-games – They're all a bit old, but I still like them.
 - 4 *Wing Commander* – It's not strictly a strategy game, but it's an accomplishment.
 - 5 *Civilization*
 - 6 *Railroad Tycoon*
 - 7 *Sim Earth* – but there's too much watching and not enough involvement for me, really.
 - 8, 9, and 10? No way – that's all folks..." ☞

At each of your city information screens you can view a close-up of the actual buildings and monuments within your city boundaries. As new buildings are created, they appear on screen here, slotting between the existing structures. After nearly 6,000 years, Byzantium (which we nicked off the Romans a few years ago) is a flourishing conurbation.



So you wanna know what a *real* epic is like? Well then forget the game of that name, and instead check out Ben Hur's big brother. The new way of life is *Civilization*.

Civilization



Everyone should have heard of *Civilization* by now – if you haven't, then the dark thing above your head is a stone, and you really should crawl out from under it. The *Civilization* we're talking about here isn't your 'speak BBC newsreader English, and use the correct spoon for the soup'-type civilisation. Oh no.

We're talking the ultimate transcendental experience here, but spelt with that awful all-American 'zee'. *Civilization*, Sid Meier's latest strategy lifestyle-ruiner, is here.

You, as guide and father-figure to a tribe of settlers, hold the destiny of the entire world in your trembling hands. Man, you're bigger than the gods – if only because, in *Civilization's* terms, you predate them all. Well, almost all – Sid Meier was there first, apparently.

On first glance, you could easily be fooled into thinking it's only a game, but then, it's

only when you've played *Civilization* for a while that it starts to play you, rather than the other way round. Unlike Meier's *Railroad Tycoon* which let you play trains for a mere hundred years, *Civilization* goes on for around 6,000 years, and you can become very attached to your offspring in that space of time.

City of tiny lights

Your objectives are simple enough: start with one icon (a unit of settlers) and create a city. Then use that city to create military units to explore and conquer the world. The further they roam, the more of the world is uncovered. You'll find new places to put down roots, seas to be crossed, trade routes to open and occasionally new civilisations to be fought or bargained with. You're constantly expanding, consolidating and learning ideas. You take on the role of colonial leader, resource manager, military general, taxman, scientist, priest, entertainer and diplomat, to name just the most frequent tasks.

So much strategy is daunting at first, just like it was in *Railroad Tycoon*, but therein lies the secret of *Civilization's* success; the more time you spend getting your head round the subtleties of *Civilization*, the more it hooks you in. It's easy enough to pick up and play, learning as you go – you'll last a long time, unless you're incredibly reckless or extremely unlucky. Soon your humble tribal beginnings start to look like they could rule the world, and then there's no putting it down. You become

Continued overleaf

Each city has its own production facility, capable of building a vast range of military and domestic hardware. But everything costs resources and takes time – inefficient cities soon become a liability.





After many years, your lands will become huge, and your cities strong and sprawling. Careful use of the settlers' skills can turn desert dunes into rich, fertile soil ripe for planting precious food.

obsessed with 'doing it to them better/faster/more than they're doing it to you' and before long, you're squeezing those crucial extra advantages out of *Civilization's* surprisingly understandable rules. But mastery of the art of *Civilization* takes more than just a few games. Much like the style of *Railroad Tycoon*, *Civilization* has four levels of skill with numerous options to increase the overall difficulty. You're going to be at it for years before you really 'wear out the game'.

Let's get civilized

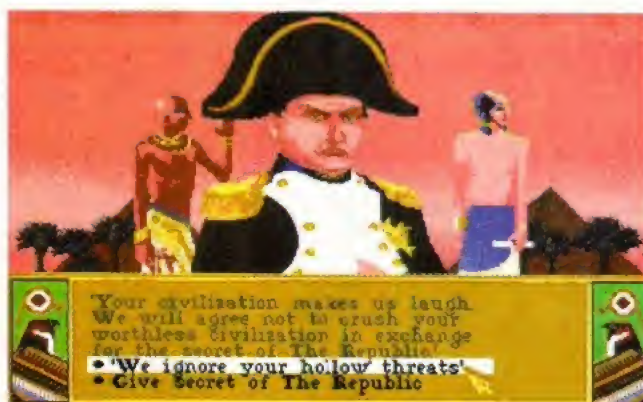
Civilization's sheer mass poses a few problems: greedy, but gotta-have graphics make a heavy demand on the Amiga's chip RAM, causing it to skip some of the interesting graphics which depict your progress. Amigas with only half a meg of chip RAM suffer a bit, even when running from hard drive. (As we go to press, the UK side of MicroProse is busy sending its top-ranking Amiga-programmers over to the US in an effort to cure this problem. Some early versions of the program will

doubtless suffer this chip RAM headache, but MicroProse will be replacing them on request. New versions should be OK - check with your dealer when you buy). The Auto-save function prevents all this being too heart-rending, thank heavens - and even in the worst situation, all

" You become obsessed with doing it to them better/faster/more than they're doing it to you "

you'll miss is a few graphics - the rest of the game plays fine. A500 Plus owners should be fine, and running from floppy is possible on most machines without problems - it's a bit slow, but it works. With four disks in the pack that's a fair bit of swapping, though it by no means makes the game unplayable.

It's rather strange that something so serious-looking can in fact be so appealing; there are plenty of spreadsheet-like screens, and tough, almost corporate-level decisions to take,



During your reign of a civilisation, you'll meet plenty of other dictators, monarchs and emperors. Many of them are belligerent, egotistical big-heads that make regular threats and demands.



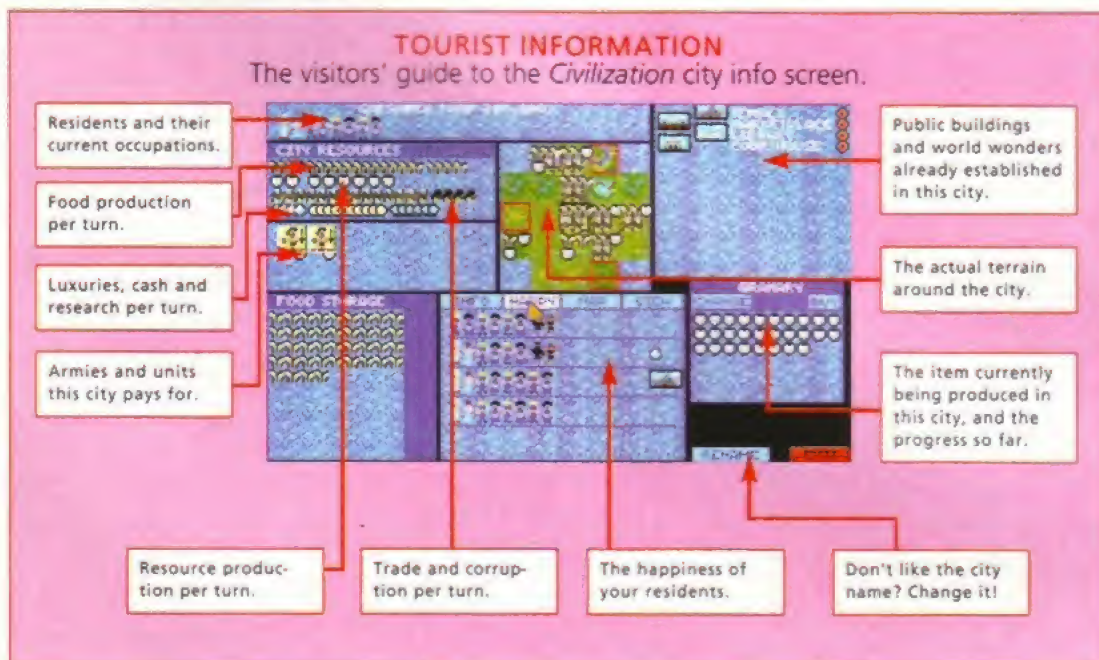
Your worthiness as leader is reflected in the size of your palace. If your subjects love you, they'll offer to upgrade and rebuild it often.

but it's still pure, addictive fun. *Civilization* is the kind of game that'll make your friends think you've become a recluse, or give your spouse ideas about divorce. People on the 'outside' just won't be able to see the attraction; people who've been 'Civilized' will emerge at the end of the game, bleary eyed and proud, with a knowledge of history and creation that applies as much to the real world as it does to their private one.

Meier and his team have done it again, making the war-games and god-games that have gone before look like hollow, not-quite-there experiences. Until now there's been nothing in the deep-strategy market that's ideal for beginners to play. *Civilization* is child's play to pick up, and has the kind of lastability that's so, so rare these days. But, having created the almost-perfect strategy masterpiece, there's just one problem: what on earth does Meier have to come up with next? For now, I don't care - I've got eight million people and 20 declining cities to look after!

Neil Jackson

TOURIST INFORMATION
The visitors' guide to the *Civilization* city info screen.



Civilization
MicroProse ■ £34.99

- More sim than *Sim City*, more war than *Mega-lo-Mania*, more god than *Populous 2*.
- World-beating strategy that is guaranteed to change your whole lifestyle. Who needs a good night's sleep anyway?
- The bigger your Amiga is, then the better the game is, but small ones can play with no real problems.
- If *Railroad Tycoon* set your signals to green, then *Civilization* will put the whole world in your hands.
- Forget all the trials and trouble of the real world. Cure and control them from the safety of your Amiga.

AMIGA GOLD 94%
FORMAT

EXPLORE THE WORLD OF WIZARDRY®



BUT REMEMBER TO COME BACK!

Ask any seasoned role-playing gamers about the Wizardry series, and they'll tell you just how deep it is.

Wizardry 6 - **Bane of the Cosmic Forge** now goes even deeper, with over 200 hours of gameplay, 11 character races, 14 professions to choose from and a mystical plot that weaves its way through a journey of wondrous magic and adventure.

Not everything about **Bane of the Cosmic Forge** is fantasy though; its reviews are most certainly for real.

PC Review and Zero awarded 90% and Strategy Plus magazine's readers voted it "Best Role-Playing Game" and "Best Game of 1991". Not bad when you consider it has never officially been available in the U.K.

U.S. Gold, who brought you Eye of the Beholder I and II, know a great RPG title when they see one. Now they've signed up Sir-tech, the brains behind the Wizardry series, so that you can experience deep role-playing for yourself.

But before you begin, a little advice from someone who knows. Have something to eat and drink as it may be sometime before you get another opportunity!



A SERIOUS EXPERIENCE

U.S. Gold Ltd., Units 2/3 Holford Way, Holford,
Birmingham B6 7AX. Tel: 021 625 3366.

Having a recognisable name on a game is a major step towards getting through to your market. But what happens along the way? What is it that makes a good licensed game? Maff Evans surveys the field of the tie-in.

What's in a name?

AMIGA FORMAT

54

SEPTEMBER 1992

No matter what you think of the latest film, TV or comic tie-in in the field of computer games might be, it's a safe bet that it will be snapped up by the game-buying public. Just the name will sell it. Fans of Arnold Schwarzenegger are going to be tempted by a game simply because it's entitled *The Terminator*. That's life.

But what of the game itself? Surely the producers always ensure that a game will stand up on its own merits? Well, it's not really that simple. There's a heck of a lot going on behind the scenes when a licence becomes a game...

Snapping up the titles

The first hurdle that has to be overcome is actually managing to acquire the licence for a tie-in. We spoke to Ocean (who are pretty much the biggest name in film tie-ins these days) to find out how it happens. Ocean's head, Gary Bracey, outlines the basic plan of action on the licence front.

"Basically, we monitor the trade magazines for TV, films and computers, following the big film releases to see what's available. If there is a desirable title up for grabs, then we approach the companies involved to see what deal can be arranged."

Things aren't always as simple as this however, owing to the complex legal wrangles that are involved with some titles. "*Hook* was rather complicated," says Gary, "since the game tie-in was licensed to Sony, who also own the film company. So we had to sublicense the title from them for a number of formats in Europe."

What about the cost involved? Is it all big-dollar deals with the film companies? Does it affect the amount of development money being ploughed into the actual game?

"Well, it depends on the title being licensed. We can't really disclose the actual figures, but we'd obviously pay more for something like *Batman* rather than *Nightbreed*, just because of the strength of the original title. As far as development costs, we tend to do things in-house, which means that we can



The movers and the shakers. A good review in *Empire* or *Premiere* magazine does not necessarily ensure the same in *Amiga Format*.

spend as much as we want on development - within limits, of course!"

The amount of cash injected into a tie-in is often a bone of contention, but in most cases the development budgets for a game depend more on the details of the licence rather than the cost of acquiring a title. Gary explains:

"If we mess up a conversion the film companies are entitled to go elsewhere for the sequel"

"The amount of money used in development of a licensed title depends on how many formats we can produce. If we buy a big title and get the rights to produce it across disk, console and 8-bit machines, we'll obviously spend more money developing for all the titles, simply because it's worth our while to capture all the markets. We'd spend less on development if, say, we only had the disk rights and not consoles, even if the licence itself was relatively inexpensive."

Some licences and tie-ins come about via a more indirect route. One licensed title that Ocean have recently released is *Push-Over*, which features the Quavers cartoon character, Curly Colin. This was more an exercise in marketing, as Ocean's PR person, Ken Lockley, explains.

"We were actually doing *Push-Over* anyway and we'd already seen Smiths have a lot of success with a licence on the Gameboy, so when we saw that they wanted to produce an Amiga game featuring Curly Colin, we decided to approach them, since we thought *Push-Over* could be easily converted to incorporate the character."

The film of the game

Another game which was produced in a rather strange fashion was *Robocop 3*, mainly because the film hasn't yet appeared! Gary Bracey explains:

"The game is actually based on the script of the third film, but Orion pictures were in trouble so the film has taken longer to produce than expected, hence the game coming out



first." It looks as though this problem may reoccur, since Ocean have managed to snap up the rights for another big future film release in the form of Steven Spielberg's next epic *Jurassic Park*. The film has been delayed quite considerably and may be threatened by the release of Roger Corman's *Carnosaur*, which apparently has a similar premise to *Jurassic Park*! However, the major film money is still behind Spielberg's movie (Walt Disney are reportedly building a dinosaur park for the filming), so the film and game should attract a lot of attention.

Ocean have also produced two games based on the first *Robocop* films, but does this mean that they can then automatically produce the sequels?

"Not necessarily," says Gary. "ethically, if we produce a successful game based on a



Gary Brace: head of Ocean Software, one of the biggest names in computer game film licences in Britain.

movie, then we get first refusal on a licence for the sequels, but the film companies are entitled to go elsewhere if we mess up a conversion, so it's not a foregone conclusion that we'll produce a game."

So software houses do have something to try to urge them into making the most of a licence, since the film companies will hold it against them! This has been the case with some titles, even some of the bigger licences. One of the most notable cases where a sequel was released by another company was *Predator*.

Activision's game wasn't really up to scratch, so the sequel licence was picked up by Mirrorsoft. Just think, next time you see a film tie-in that doesn't impress you - you may be annoyed, but console yourself by remembering that the software house responsible will almost certainly not be releasing any sequels! ☺

10 Box-office smashes

1 Robocop 3 Ocean ■ £39.95



Digital Image Design take a rather different view of the film-licence world by producing a very involved 3D adventure. Combining driving, flying, puzzle and shoot-em-up elements with their impressive polygon graphic system, DID

manage to come up with a film tie-in which actually captures the feel of the movie - something which is usually missed in titles converted to the computer game screen.

91% *Amiga Format* 32

2 Batman - The Movie Ocean ■ £24.99



Ocean have already produced one Amiga game based on the caped crusader, with a considerable amount of success. Could a game based on the Tim Burton movie come up to the same high standards? Well, yes as it happens, it did! Based on a

combination of 3D driving and platform-and-ladders sections, the Gothic atmosphere of the film was transferred perfectly to the computer screen.

90% *Amiga Format* 5

3 Monty Python Virgin ■ £19.99



How the hell do you produce a game that is based on something as totally mad and surreal as *Monty Python*? You produce a mad game, that's how, Virgin's conversion of

Monty Python is about as mad as they come, with Gumby flitting about (both as himself and as a fish) collecting tins of Spam to reclaim his missing four brain pieces. Superbly playable and wonderfully stupid!

88% *Amiga Format* 15

3 Flight of the Intruder Mirrorsoft ■ £34.99



Based on the book that became the film, *Flight of the Intruder* is basically a *Falcon*-style flight simulator based on the Vietnam scenarios found in the original story. The game is very technical, offering loads of options (including a head-to-head

competition on two linked machines) and some very nice flying animation. The only thing that holds the game off the Format Gold slot is the fact that it is limited by the storyline. However, it's still a worthy flight sim.

88% *Amiga Format* 28

5 Blues Brothers Titus ■ £25.99



Although more people are familiar with the Belushi and Ayckroyd *Blues Brothers* film, this game is actually a licence of the *Saturday Night Live* characters rather than a conversion of the movie itself. The game is a platform affair,

which has some clever animation and wonderfully inventive scenery with the Brothers leaping around four levels in an attempt to collect together the items they need to put on a blues concert. Cute cartoon action which works rather well.

86% *Amiga Format* 29

Box-office smashes...

6 Nightmare Mindscape ■ £25.99



Fans of the original *Nightmare* TV show could be a little disappointed by this game, since it doesn't really bear any relation to the programme at all! Still, it's still a very impressive *Dungeon Master*-style adventure game, put together by Tony Crowther (the author of the superb *Captive*). Despite being slickly presented, the game lacks that certain something, but should still prove fun for adventure freaks.

85% Amiga Format 31

=7 The Simpsons Ocean ■ £25.99



Although *The Simpsons* cartoons are only on Sky TV in Britain, the Bart phenomenon has taken off massively. Almost every kid you see knows the phrases 'Aye Carumba!' and 'Eat my shorts,' so it's was a certainty that a video game

would be released. Due to complex licensing agreements, the Amiga game is a conversion of the Nintendo cartridge. Still, it's a pretty good game (if a little simplistic at times) and should keep fans of the yellow family happy for some time.

82% Amiga Format 26

=7 Hill Street Blues Krisalis ■ £24.99



Rather than simply producing a multi-stage arcade game based on the TV Show, Krisalis decided to produce a more technical game to capture that cops-and-robbers feel. The game puts you at the head of the police force and you control the crime stoppers via a set of icons. With all the stuff you have to remember (not least the 48 different icons), things can get a little hectic, but the game still manages to draw you into its atmosphere, making it a fun adventure in law and order.

82% Amiga Format 23

=9 Neuromancer Electronic Arts ■ £24.99



The Cyberpunk sub-culture all started with one book - *Neuromancer*. Taking on the task of producing a computer game of such a historic novel is quite an undertaking, but Interplay have managed to come up with a rather challenging

adventure role-player which translates the story well. The graphics don't really capture the atmosphere of the technologically overrun Chiba City, but the gameplay is challenging enough to ignore this foible.

81% Amiga Format 14

10 Predator 2 ImageWorks ■ £25.99



Taking on a more *Operation Wolf*-style view, ImageWorks' conversion of the second *Predator* film was a darned sight more successful than Activision's bumbling of the first film! You play Harrigan as he tries to battle the drug

gangs and the nasty alien in a heat-stricken future Los Angeles. Marvellous graphics and sound effects combined with frantic action make this a worthy conversion.

81% Amiga Format 23



How remarkably unpleasant! Children's entertainment shouldn't have disgusting things like exploding people. It's all very well in those naughty films on the top shelf of the video shop, but in a *Peter Pan* story we expect nice things and a happy ending. Not this nasty stuff.



Don't just stand there like a lemon. There are some beautiful mermaids trying to help you. It's not every day that this happens, so why not make the most of it? Enjoy yourself!

There it is! Neverland! The place of dreams. The place of fun. The place where you don't have to grow up. The place where you get trapped in a rather frustrating adventure game. Never mind.



A trip to the doctor can be a pretty hairy experience, especially if he's a maniac like Dr Chop. Grit your teeth and bear it though - there's some cash in it for you at the end!



Hook

Have Ocean managed to retain that Spielberg magic with their latest conversion, or will JM Barrie be turning in his grave?



It's quite often the case that big film releases are snapped up ready for licensing for a computer game without a shred of an idea as to what the game is going to be. This usually results in the game being a rather

weak action game that is only loosely based on the characters within a film. Lucasfilm have a very different opinion. They think that the only way to do justice to a film in a computer game is to produce a graphic adventure, and Ocean have taken a leaf out of their book with the licence of the hit movie *Hook*.

You take the role of Peter Banning (who is, in fact really Peter Pan – he just doesn't know it just yet), who is taken to Neverland to try and rescue his children, who have been captured by the evil Captain James Hook. Unfortunately, Peter has completely forgotten all about his times in Neverland as the eternally youthful leader of the Lost Boys (not the blood-sucking, Kiefer Sutherland variety, but the friendly orphans). You must guide Peter around (with help from Tinkerbell), solving puzzles, finding useful objects and talking to characters before you can retrieve your children from the clutches of Hook.

Well I never!

The plot of the game is only loosely based on the film (after all, it would be a bit easy to complete if it was exactly the same), using characters and situations as clues to how you should continue, rather than enhancing the plot. Most of the situations and people you meet on the way aren't in the film at all.

The game is controlled via the usual sort of 'point and click' interface. You simply point at the command that you want to use (look at, talk to, pick up, use or give) then the person or object you want to manipulate. Walking around is even simpler. Just click on the point you wish to get to and Peter will walk there. A particularly sharp eye is needed when playing the game, since unlike most other adventures, you aren't given any hint as to the usefulness of an object. You have to 'Look At' EVERYTHING on a screen to find out whether it can be used or not – you're given no clues whatsoever! If you want a piece of advice, you can try talking to Tinkerbell to get an extra clue or two, but she doesn't often give much information away.

Interaction with the other characters is done by using the 'Talk To' icon. This gives you a set of questions you can ask (which are cycled through using the right mouse button). This is one of the main problem areas. Whereas in something like *Monkey Island* the conversations evolve as you go on, allowing the characters to develop their own part in the story, *Hook* simply churns out the same messages time after time, making everyone in the game seem a complete dullard.



One idea that is pushed forward in the Peter Pan story is to 'keep thinking happy thoughts.' Unfortunately, this is easier said than done while playing *Hook*. The graphics have been very nicely done in places (there were, after all, five artists working on the presentation) but they lack the style found in *Monkey Island 2*'s wonderful artwork.

Some kind of wonderful?

It's a shame the graphics aren't wonderful, since the presentation is all that *Hook* has in its favour. The plot hardly captures the innocent charm and fun of the original film, and the gameplay is just too boring to keep any adventurer interested for long. At times it appears that

complete lunacy has taken over – especially in the way that some of the clues are given. Tinkerbell gives 'clues' to do things that have been done about 10 minutes ago!

The control system is one of the most limited to appear on an adventure for quite some time. Five commands? Come on! The unwieldy

control system is also very difficult to use. For example, after attempting to use an object, you have to click the icon to stop using it before you can do anything else! This is very frustrating when you're trying to carry out a series of actions.

Due to the style of game and the obvious pirate connotations, some comparisons may be levelled between *Hook* and *Monkey Island 2*. However, comparing Peter Pan's digital adventures with Guybrush Threepwood's mighty escapades is like like comparing a Gameboy to an Amiga. *Hook* lacks the scope, atmosphere, humour, style and enjoyment of *Monkey Island 2*, ending up a rather dull adventure with no real staying power.

Maff Evans ☺

Hook Ocean ■ £25.99

- Occasionally nice graphics, but a bit too cartoon-like for this style of game.
- The presentation is rather swish, particularly the atmospheric intro sequence.
- The control system is far too limited and unwieldy to get you involved in the plot.
- The story and characters don't seem to evolve at all, leaving everything seeming rather flat.
- A tedious graphic adventure which shrinks into insignificance next to *Monkey Island 2*.



48%

B-Movie Turkeys

1 Predator
Activision ■ £24.99



A film of suspense, violence and gripping action. *Predator* – a game with no action, bad gameplay and an Arnie with Paddington bear legs. This is not what we want from a licence. Good graphics which capture the film's spirit and exciting gameplay is what's supposed to happen!

22% Amiga Format 5

2 Hare Raising Havoc
Infogrames ■ £25.99



Now if there's one recent film which gives the perfect opportunity for fun cartoon action, it's *Roger Rabbit*. Instead, *Hare Raising Havoc* is a slow, *Dragon's Lair*-type game which requires loads of memory, a hard drive and the patience of a saint. Keep your sanity and avoid it.

25% Amiga Format 33

3 The Jetsons
Hi-Tec ■ £12.99



Another cartoon licence which fails to have any fun cartoon action is *The Jetsons*. Based

on the futuristic cartoon family, the game puts you in control of George as he tries to collect objects and solve puzzles. Boring gameplay, bad controls and frustrating glitches make even the sub-13 quid price tag too much.

29% Amiga Format 34

4 Teenage Mutant Hero Turtles
Image Works ■ £25.99



Everyone must have heard of the Hero (nee Ninja) Turtles. The craze that swept the nation

a couple of years ago was latched on to by computer-game companies, ending with a *Turtles* coin-op and computer game. The coin-op was great, but the ugly looking, poorly playing and downright horrible home-game was tedious. No wonder the craze wore off.

35% Amiga Format 19

5 Tintin on the Moon
Infogrames ■ £19.99



All together in big booming voice... it's... 'Herge's adventures of Tintiiiiin!' All

together in slightly less booming voice... 'What an awful platform gaaaaame!' A few levels of tedious action based on a single Tintin adventure. The tame graphics, boring gameplay and the plot stripped down to say the least.

38% Amiga Format 5

MEGA SPORTS



THIS COMPILATION © 1992 U.S. GOLD LTD. ALL RIGHTS RESERVED

OVER 30 MASSIVE SPORTING EVENTS HAVE YOU GOT WHAT IT TAKES?



AVAILABLE ON: AMSTRAD DISK • C64 CASSETTE & DISK • SPECTRUM • ATARI ST • AMIGA.
 U.S. Gold Ltd., Units 2/3 Holford Way, Holford, Birmingham B6 7AX. Tel: 021 625 3366.

SIZZLING SUMMER SALE

● MEGA DISCOUNTS ● SUPERFAST SERVICE ● GUARANTEED QUALITY ● FANTASTIC PRICES ●

3.5" DSDD DISKETTES 100% CERTIFIED ERROR FREE

50 DSDD 3.5" 'A' Grade 100% Quality	£23.00
100 DSDD 3.5" 'A' Grade 100% Quality	£41.00
150 DSDD 3.5" 'A' Grade 100% Quality	£69.00
200 DSDD 3.5" 'A' Grade 100% Quality	£138.00

PLEASE CALL FOR LARGER QUANTITIES

PRICES INC VAT/DELIVERY AND FREE COLOUR CODED LABELS

3.5" DSDD DISKETTES WITH DELUXE STORAGE BOXES

50 DSDD 3.5" plus Lockable Antistatic Box	£27.50
100 DSDD 3.5" plus Lockable Antistatic Box	£46.95
200 DSDD 3.5" plus 2 Lockable Antistatic Boxes	£76.95
400 DSDD 3.5" plus 4 Lockable Antistatic Boxes	£145.00

PLEASE CALL FOR LARGER QUANTITIES

PRICES INC VAT/DELIVERY AND FREE COLOUR CODED LABELS

ALL OUR DISKETTES ARE 100% CERTIFIED ERROR FREE AND SUPPLIED WITH COLOUR CODED LABELS

AMIGA COMPUTERS

A500+ Cartoon Classics Pack **£325**
 New A600 **£365**
 New A600 Plus 20Mb HD **£455**

Inc VAT/Courier Delivery

BANX BOXES

3.5" 90 Capacity lock together both horizontally & vertically only **£9.95**
 3 or more **£8.99***
 5 or more **£8.50***
 * per box

UPGRADES

A500 1 Meg with clock **£21.00**
 no clock **£19.00**
 A600 1 Meg **£49.95**
 A600 Unpop **£47.00**
 1.3/2.04 Rom Sharer **£19.95**

RAM EXPANSION

0Mb Exp **£79**
 2Mb Exp **£119**
 4Mb Exp **£175**
 8Mb Exp **£289**
 The ultimate Ram Expansion, simple to plug in and go, Zero Wait, Bus through port Auto Conf.

AUTO SWITCHER

Never unplug your mouse to plug in your joystick again. This exciting new product connects to the mouse port, selection is automatic, clear L.E.D. shows which device is being used.
Only £16.95

ADDDHARD RANGE OF EXCEPTIONAL QUALITY DRIVES

Addhard 45Mb	£265.00
Addhard 70Mb	£325.00
Addhard 105Mb	£375.00
Addhard 205Mb	£549.00

all prices inc VAT/Delivery by courier.

Beautiful drives, very easy to install with concise installation guide, factory preset.

FEATURES INCLUDE:

- Ultra High Speed
- Slimline, Colour coded
- Simple Installation
- Autoboot 1.3/2.04
- Very easy to use
- Does not invalidate warranty

MAKE EASY ACCESSORIES

Roclite Drive	£54.95	Deluxe Mouse Mat	£2.75
Cumana/Zydec Drive	£51.95	1000 x 4 colour labels	£10.00
Naksha Mouse	£24.95	Printer Stands	£5.95
100 Cap Box	£4.50	Zy-Fi Amp/Spkrs	£37.50
Posso Box	£15.00	Zipstick Auto	£12.95
10 Cap Boxes(5)	£4.95	Speedking	£12.95
Dust Cover	£3.95	Zydec Trackball	£24.95

TELESALES

0689 861400

MD OFFICE SUPPLIES

18 Crescent Way, Orpington, Kent BR6 9LS

TELESALES

0689 861400

E & OE



Education/Government order welcome.

All orders below £20.00 add £2.95 P&P. All prices include VAT.

All orders subject to availability.





"Tis said if you look at it the mutant spaghetti tree will transfix you forever," says the scarecrow, his eyes desperately fighting the powerful magnetic force.



"Just like that!" Not a fez, but a comical mask that just might put the frighteners on whatever's lurking in that coffin...



"And you needn't think I'm crossing that bridge, either. Not until someone moves that menacing-looking pillow out of my way!"

Gobliins

AMIGA FORMAT

60

SEPTEMBER 1992

The King is MAD! Long live the King! Honestly, some of the things these regal types have to put up with are just plain ridiculous. When you're King, you expect to be able to sit down to a nice Sunday lunch without any interruptions from nasty people – you know the type – peasants, serfs, journalists and the like.

King Angoulafre is just about to tuck into his roast hog with his family, when he is attacked by an evil one armed with a voodoo doll and some pins. As the pins are stuck in, the King starts jumping up and down in his seat, and laughing like a loon. Naturally his family start thinking he's gone raving starkers, and they lock him up in one of those nice rubbery type rooms. But who can help?

Enter Oups, Ignatius and Asgard, a trio of goblins each of whom possesses a unique talent. They must set off into unknown lands, and search out the only things which can help their King. Using the mouse, your job is to control the goblins in their quest. The area outside the Kingdom consists of a series of 22 different landscapes, each containing various puzzles which must be solved. As various objects and nasties obstruct the solution to each level, the three must operate as a team in order to move on.

Treehouse

Once the game starts, you are effectively thrown in at the deep end. The first screen depicts a house with a back yard, a tree, and a large gate. The screen is dotted with small cartoon-type animals, which don't add to the

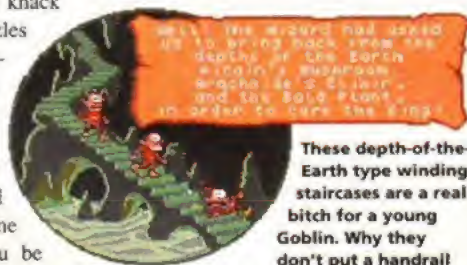


Don't just stand around tapping your feet, get a move on! Pass GO and you will, erm, move on to the next screen. Or something.



plot but help make the game look pretty. At the base of the screen is a counter bar, which gives you information such as how much energy you have left, and which goblin is being controlled.

Moving around the screen manipulating objects in an attempt to solve the puzzle will initially end in disaster. Reading the instruction manual reveals a clue, but this doesn't really help and the game may now appear daunting to the average player. As with most puzzle-type games though, perseverance pays its rewards, and the knack of solving the puzzles soon becomes second nature. At the end of each screen a code is displayed which will enable entry to that level (with the same energy) should you be killed off at a later stage.



"Why do I never get a fly?" The smaller of the two carnivorous plants looks on as his elder brother takes a light snack.

These depth-of-the-Earth type winding staircases are a real bitch for a young Goblin. Why they don't put a handrail in, I'll never know.

Scream again

The game comes on three disks, and the loading time is fairly rapid. The graphics are very cute from the introduction onwards, with lots of nice touches which add to the feel of the game, and a good element of humour is apparent throughout – for example attempting to use violence or cast spells on various objects during the game sometimes brings hilarious results. The sound isn't too impressive, with

only two spot effects and there is no music either, but as the tunes which normally accompany this sort of game are incredibly annoying, some may find this a blessing.

The generally polished presentation is marred by a few niggles – for instance if the energy runs out, and the player chooses to restart from the current position, the entire level is reloaded from disk. This doesn't take a horrendously long time, but it is unnecessary and can be extremely frustrating.

Also there are inherent problems with the control system, since the mouse pointer is used to select and control all three characters, and this can be a bit fiddly when you are positioning a goblin in a particular spot. This latter point isn't really a criticism, but something to take into account when playing the game. The game might have been better if all characters could be moved around simultaneously.

Challenge Anneka

Gobliins is a cute game with some excellent features, and will certainly appeal to fans of the now legendary *Lemmings* genre. Some players of the game will no doubt get very frustrated with one or two levels as the solution is not always immediately apparent, but hardened puzzlers will love it.

Andy Nuttall

Gobliins Coktel/Digital Integration

- Nicely presented, with cute graphics and some neat touches.
- Difficult to get into initially, but solving the problems can be rewarding.
- No time limit, so plenty of time to ponder on the puzzles.
- Some annoying delays mar what is clearly a polished program.



81%

Tonight you could
prang an F-19, shatter enemies from your M1 tank
or have a smashing dogfight in your F15



Alternatively you could crash out in front of the TV

With incredible animated graphics putting you squarely in the hot seat, there's no excuse to be sluggish!

These realistic simulations give you a 3D perspective of combat in the sky from your jet fighter cockpit or on the ground from your tank turret. Each game demands that you use your

finely honed skills to decide on strategy, missions and campaigns.

More of a challenge than waiting for a rerun of Top Gun, really.

MICRO PROSE™
SIMULATION · SOFTWARE

Seriously Fun Software

**F-19 Stealth Fighter, M1 Tank Platoon, F-15 Strike Eagle II -
all classic games from Europe's Number One Software Publisher**

MicroProse Ltd. Unit 1 Hampton Road Industrial Estate, Tetbury, Glos. GL8 8LD. UK. Tel: 0666 504 326

COMING TO A NEWSAGENT NEAR YOU

from Thursday 6 August

BRILLIANT
E.A. SHADES
SHADES
WITH THE SEPTEMBER
ISSUE!



BRITAIN'S BEST-SELLING SEGA MAGAZINE!

SEGA POWER

NOT APPROVED BY SEGA UK
SEPTEMBER 1992
ISSUE 34 £2.50

9 Pages of vital tips, including the last three levels of *The Lucky Dime Caper* and the second part of our ace *Phantasy Star 3* guide!

204 MEGA DRIVE GAMES REVIEWED & RATED!

176 MASTER SYSTEM GAMES REVIEWED & RATED!

48 GAME GEAR GAMES REVIEWED & RATED!

URGH!

Splatterhouse 2
All graphics and no gameplay? Check it out on page 30

Win!
We've got tons of *Alien 3* goodies to give away, including vids, caps, comics and lots, lots more!

The Bitch Is Back!
ALIEN³
bursts onto your Master System!

What? No E.A. shades? Better low it this newsagent is missing them!

Future Publishing
Your guarantee of value

Grab yourself a front-row seat for the September issue of Britain's best-selling Sega magazine - in the shops on Thursday 6 August

Price Busters!!

Graphics & General

Advantage.....	64.99
AniTA.....	24.99
Art Department Pro 2.....	139.99
Baby.....	9.99
Big Alternative Scroller.....	34.99
Broadcast Titler 2.....	154.99
Deluxe Paint IV.....	54.99
Expert Draw.....	49.99
Expert 4D Jr.....	39.99
Font Grabber.....	29.99
Hotlinks.....	49.99
Imagine 2.0.....	189.99
Mediastation.....	119.99
Personal Finance Manager.....	19.99
Personal Font Maker.....	34.99
Professional Calc.....	99.99
Pro Draw 3.0 - NEW!.....	89.99
Real 3D Beginners.....	99.99
Scala.....	179.99
Scala 500.....	64.99
Scenery Animator.....	49.99
Take 2.....	34.99
Video Director.....	99.99
Video Fonts.....	39.99
Vidi Amiga.....	84.99
Vidi Colour Solution.....	139.99
Vista Pro 2.....	49.99
XCAD 2000 - NEW!.....	99.99
XCAD 3000 - NEW!.....	299.99

Quarterback Tools.....	44.99
SAS C.....	159.99
Turbo Print Pro.....	39.99

Hardware

Boot Selector Switch.....	14.99
512K RAM with clock.....	29.99
Colourburst.....	399.99
1.5Mb RAM with clock.....	82.99
Invision Plus/Live.....	499.99
Flicker Free Video A500.....	269.99
Kickstart Switch with 1.3 ROM.....	44.99
Naksha Mouse.....	22.99
Optical Mouse.....	29.99
RGB Splitter.....	59.99
RocGen Genlock.....	84.99
RocGen Plus.....	129.99
RocLite Drive.....	54.99
Roc Key.....	269.99
Podscat Graphics Tablet.....	189.99
Touch Screen for Amiga.....	229.99
3 Button Track Ball.....	34.99
Zydec Trackball.....	29.99
Zydec Amiga Drive.....	49.99
Zydec A500 1Mb RAM Card.....	44.99
Zydec Hand Scanner.....	119.99

Music & Sound

AD1012/Studio 16 Card.....	399.99
Audio Engineer Plus 2.....	149.99
Audition 4.....	34.99
Deluxe Music Const. Set.....	49.99
Megamix Master.....	29.99
Perfect Sound.....	39.99
Pro Midi Interface.....	19.99
Sound Enhancer - NEW!!.....	29.99
Stereo Master.....	29.99
Techno Sound Turbo.....	29.99

DTP & Wordprocessing

Excellence 3.0.....	59.99
Gold Disk Type.....	29.99
Kindwords 3.0.....	34.99
Page Setter 2.....	34.99
Page Stream 2.2.....	129.99
Pen Pal.....	49.99
Protex V5.5.....	99.99
Professional Page 3.0.....	129.99
Quickwrite.....	29.99
Scribble.....	22.99
Transwrite.....	29.99
Wordworth 1.1.....	79.99
Works Platinum.....	49.99

Development & Utilities

AMOS.....	29.99
AMOS 3D.....	22.99
AMOS Compiler.....	19.99
Easy AMOS.....	22.99
Anim Fonts 1, 2 & 3.....	29.99
Blitz Basic.....	49.99
Can Do V1.6.....	64.99
Dev Pac 3.0.....	49.99
Directory Opus.....	25.99
Diskmaster.....	32.99
HiSpeed Pascal.....	64.99
Home Accounts 2.....	36.99
Maxiplan 4.0.....	34.99
Quarterback 5.0.....	39.99

Post & Packing add 25p
Securicor add £5

48 hour despatch (cheques 7 days)

Cheques should be made payable to Softstore
Access and VISA cards accepted

Softstore, 410 Bath Road, Slough SL1 6JA

0628 - 668320

CALLERS WELCOME

SPORT FOR PC

Play a round All year round

It's raining cats and dogs outside, but it's a beautiful crisp Spring day on the Torrey Pines Golf Course.

You approach the tee, driver in hand. Gazing down the fairway, you notice every feature of this classic Pacific Ocean Links course.



The Challenge of Golf takes you to a new level of realism. You can almost smell the grass, feel the silky putting surfaces and take in the fresh sea air. At times, you'll want to replace the divots, until you remember it's only a game.



But WOW, what a game!

And now, as well as the 256 colour 3D PC graphics, you can experience Links on Amiga, featuring exclusive HAM MODE graphics and digitised sound.

So, put on your sun visor and practice your swing. You're next on the tee.

Available on: PC (VGA or MCGA, 640k and Hard disk required. Supports: AdLib™, Soundblaster™ MSound™ sound cards), Amiga-HARD DRIVE and 1 Meg of RAM required.

©Access Software, Inc. 1991 All rights reserved.



U.S. Gold Ltd., Units 2/3, Holford Way, Holford, Birmingham B6 7AX. Tel 021 625 3566

A serious PC experience

* SCREENSHOTS ARE ONLY INTENDED TO BE ILLUSTRATIVE OF THE GAMEPLAY AND NOT THE SCREEN GRAPHICS WHICH MAY VARY CONSIDERABLY BETWEEN DIFFERENT PLATFORMS IN QUALITY AND APPEARANCE AND ARE SUBJECT TO THE COMPUTER'S SPECIFICATIONS



While the shoot-em-up genre has stagnated, the equally simple-minded race-driving game goes from strength to strength. Let's burn rubber once more...

Crazy Cars III



You make think that driving games are easy – if so, sling on the brakes and just think again! Number one rule is do as much damage to the vehicle next to you as possible, so long as it's not a cop car. If you scratch the constabulary's paintwork, you'll be labelled 'offender' and hunted down.



There's 15 races to run, and that's just in one division out of the four. Wherever in the country you go to compete, weather is unpredictable. And remember: you need money to enter the race.

other competitors in your race that you will finish before them. Unfortunately your opponents are very good – you have been warned!

Money won at a race can be used to improve your car through the purchase of various add-ons, which is a welcome feature. The hardware store sells new and faster gearboxes, wet-weather tyres and super brakes, which are

all ludicrously priced but improve your car's performance greatly. The most expensive item is, surprisingly enough, the good old nitro fuel, costing an incredible \$50,000. For your hard-earned money you get 10 seconds of rocket-powered mayhem, which increases the car's speed by about a third. This has the effect of practically turning it into a low-flying

The nice thing about race games like *Crazy Cars* is that you can sit down and play them immediately, often without even referring to a manual, because they use an age-old concept: one that is easy to relate to and understand.

We all know what to expect from a game of this genre, don't we? Push forward to accelerate, steer left and right to avoid other cars and pull back when you want to stop, right? Wrong. For, as you may well remember, *Crazy Cars II* tested your map-reading skills as well as your driving, and now *Crazy Cars III* goes into even more depth.

Take several desperate and reckless drivers with powerful cars, a perfectly innocent public-road system and some transport police, and you'll have some idea of what a typical *Crazy* race involves.

The first thing you notice when you begin driving in *Crazy Cars III* is that the game generates a good feeling of distance between you and the cars ahead. Far along the road in front of you, dwindling tail-lights of the leading cars appear and disappear quite realistically on the horizon; an effect which was not carried off as effectively in *Lotus Turbo Challenge II*.

Get it loose

Different weather conditions also have a greater bearing upon the game than in *Lotus*, with each climate producing its own car-handling characteristics as well as a change of scenery. Weather conditions are sometimes generated randomly, so it is possible to have snow falling upon the cacti as you drive along desert roads.

Different towns also have different scenery and who is to say whether or not you will race at night or in the daylight hours? A large range of scenic views is to be found within this game, each one of them well-drawn and moving past very swiftly... now I want a real Lamborghini!

Cash, as well as climate, is important. Prize money for finishing in pole position is double the race entry fee, but for finishing third you make a 50 per cent loss. So winning the race outright is practically the only way to make a profit. The only alternative is to wager

GO-FASTER GADGETS IN THE HARDWARE STORE



Well, here I am at the *Crazy Cars* equivalent of Halfords, and there are lots of juicy things on offer. The devices are as follows, starting from the top row and working from left to right: radar detector, this useful gadget tells you police are ahead, so that you can slow down to avoid their radar; turbo boosts, that's ridiculously priced nitro fuel to you and me; snow tyres, the grip these provide is crucial for icy stages; new automatic gearbox, a self-shifter that will take you up to 336kph; super-brakes, these babies give unsurpassed stopping power; new manual gearbox, this will take you up to 336kph as well – and it's \$5,000 cheaper.



A little bit of fresh air between you and other cars is a rarity, so it's really welcome. Strangely, that city over there just never seems to get any closer. With the blacktop rushing past at a slightly pedestrian speed, we're not in too much danger of being clocked by a speed trap - at the moment!



Apart from the fact that it seamlessly intertwines ludicrously expensive machinery with disastrously irresponsible road sense, the main reason it's called 'Crazy' is probably the other drivers.

aircraft, so I suppose we must grudgingly accept that the race is more interesting when nitro is only used rarely.

Babylon business

It's a fair cop - even in America. Police are to be found patrolling the highways, giving you even more hassle. Apart from the patrol cars which chase you when you accidentally (or otherwise) hit someone, there are also radar-operated camera speed traps along the road.

Police wielding hand-held speed-detectors also give chase frequently. They are excruciatingly annoying, but give the game much more flavour. And, as they try to ram you off the road (because you've been, er... ramming other people off the road), the game bears a very strong resemblance to *Chase HQ* (your car even becomes labelled with a huge arrow saying 'Offender' on it). Nb: a sneaky trick to play when the cops are around is to shunt an opponent into a police car, thus turning him into an offender.

All-in-all, *Crazy Cars III* has amazing durability because it keeps on changing, the races run smoothly and quickly, and terrain is presented really well. From the word go, you

have a challenge on your hands. It is certainly much harder than the recent *Lotus* and *Jaguar* race-games, but in the long run this just means that you'll carry on playing.

Paul Tyrrell ☺

Crazy Cars III Titus ■ £25.99

- 15 different locations in each of the four divisions, masses of varying terrain and weather make this a big game.
- Curiously, the same people appear in each division, but with differing driving ability.
- Nice intro, sound and graphics which move fluidly all the time and don't look like cardboard cut-outs.
- A two-player mode should be seriously considered for *Crazy Cars IV*.
- Errm... why is the Lamborghini on the box yellow, when the one in the game is red?



93%



Giuseppe Baloni, Italian left-back, was vastly admired for his ability to balance a huge chipboard arrow on his head while dribbling.

European Champions

iDEa ■ £25.99

The year is 1992, and there are already far too many football games out there. So what has this one got over others? Well, it doesn't actually come with an instruction manual. Nope. Instead you get a rather tasteless poster.

The game is actually as crap as the poster, unfortunately, as it could have been good. It's one of those footy games where the ball sticks to your feet, the action is interrupted by pointless animation sequences, the ball always goes out from goal kicks. The graphics are typically green...

Sonically the game is a real blaster.

I got a headache. Yup. It was a bad iDEa releasing this one...

Asam 'Top Life' Ahmad ☺

Verdict 34%



You can toboggan in a straight line. Or you can toboggan diagonally. What fun! Yet despite the limits, this game can be rather enjoyable.

Winter Supersports 92

Flair Software ■ £25.99

As the Summer Olympics in Barcelona end, Flair bring out a game based on winter games. This is either a bit out of date, considering the Winter Olympics were held earlier in the year, or a tad premature - the next event will be in 1996.

Aside from a poor sense of timing, as a game it's on the ball. It's based on a multiple-sports format, along the lines of *Epyx's Games* series of a few years back. There are eight events, which can be played individually or in a series, by one or two players.

The problem is, some of the events are so similar it seems there's not much to the game. Bobsled and Luge are variations of the same event, while Downhill Skiing and Giant Slalom are both based on the familiar downward-scrolling ski course. Also, Bale Jumping and Speed Skating are based on an identical 3D course with polygon graphics, the only difference being a polygon bale which has been thrown in for good measure.

Pro Ski Challenge, a one-on-one downhill ski race with jumps, and Skidoo Racing, an average *Super Sprint*-style game, are the highlights of the package. A not very mixed bag of out-of-season sports, playable... but not for long.

Tim Howell ☺

Verdict 65%

The Digita range...

Home Accounts2®

An advanced version of Home Accounts, which is limited only by the capacity of your computer. Sophisticated reporting with graphics, and special options such as VAT and loan calculation facilities. Equally suitable for businesses, clubs and charities (ST and Amiga) **£54.99**



Home Accounts

Ideal for home users who want a simple, low-cost way to plan and manage home finances. **£29.99**

DGCalc

This fast, simple spreadsheet includes many advanced features, including a windowing facility, so that you can look at different parts of the spreadsheet at the same time. **£39.99**



Mailshot Plus

If you ever need to send out mailings or print labels, this program is for you. Animated labels appear on-screen as a continuous sheet, allowing you to scroll backwards and forwards. You can search, sort and detect duplicate labels, print side by side and much more. **£49.99**

DGBase

If you're looking for fast access to information, and the ability to create customised reports, then the relational database is for you (ST). **£49.99**



Day-By-Day

An excellent way to get organised. You'll be reminded of birthdays, meetings and appointments. It includes month-view day planners and automatic reminders of upcoming events. **£29.99**

Personal Tax Planner

Plan your own tax with ease. This simple program will calculate your income tax liability, allowing you to perform instant 'what-if' calculations and produce pertinent facts about your tax position. A professional version is also available for accountants and financial advisers. **£49.99**



E-Type

Transform your computer into a typewriter. Because text is printed instantly, you can line up your form, press return and space a few times to move to the correct place, and then start typing. Ideal for filling in forms and envelopes. **£39.99**

System 3

A suite of programs which perform all the basic functions for a small business. They may be used independently or integrated and include Cashbook Controller, Stock Control and Invoicing and Statements. **£59.99**



System 3e

Like System 3, but with extended capacity for customer accounts and stock items. **£79.99**



Cashbook Controller

Take the drudgery out of book keeping as this program will replace your cash and petty cash books. In addition to recording cash, bank and VAT transactions, you can enter credit sales and purchases, and for all these entries the program will automatically complete double entry routines, to ensure your records are always in balance. **£59.99**

Final Accounts

Using the information created with Cashbook Controller, this program will produce a complete set of accounts, including Trial Balance, Trading and Profit and Loss Account, Balance Sheet, as well as useful accounting ratios. **£39.99**



Cashbook Combo

A money-saving combination pack containing Cashbook Controller and Final Accounts. **£79.99**



Wordworth®

The graphical nature of Wordworth makes producing documents faster and easier. With the enhanced printing fonts, Collins Spelling Checker and Thesaurus, no other word processor comes close (Amiga). **£129.99**

The Digita range is available for Commodore Amiga, Atari ST and IBM PC unless stated otherwise, and every program comes with a seven day money-back guarantee.

The only way to really appreciate Digita software is to use it. Phone 0395 270273 for more information, or write to Digita, FREEPOST, Exmouth EX8 2YZ. All prices include VAT, postage and packaging.

DIGITA®
INTERNATIONAL
software that's right

The Digita range is available to the trade through Columbus, Gem, HI Marketing, IBM, Laser, Leisure-soft, Precision and SDL.



**WE DO NOT SELL
GREY IMPORTS**

Special Reserve

Games Club

0279 600204
**Open to 8pm Weekdays
and to 5pm Weekends**

Gameboy

with Tetris, 2 Player Lead
Batteries, Stereo Headphones,
FREE Special Reserve Membership
AND FREE Gameboy Holsters, Belt and Cartridge Pouch
OR FREE Konix G.B Holster (Please state your choice)

69.99

- | | | |
|-------------------------------|--------------------------------|------------------------------|
| ADDAMS FAMILY.....20.99 | DRAGON'S LAIR - | OTHELLO.....18.99 |
| ADVENTURE ISLAND...20.99 | THE LEGEND.....22.99 | PACMAN.....20.99 |
| ALLEYWAY.....18.99 | DUCK TALES.....20.99 | PAPERBOY.....18.99 |
| ASTEROIDS.....18.99 | DYNA BLASTER.....13.99 | PAPERBOY 2.....20.99 |
| BALLOON KID.....18.99 | FOOTBALL INTERNATIONAL...20.99 | PRINCESS BLOBETTE...20.99 |
| BART SIMPSON'S ESCAPE...20.99 | FORMULA 1 RACE (WITH | Q-BERT.....20.99 |
| FROM CAMP DEADLY.....20.99 | FOUR PLAYER ADAPTOR) 24.99 | R-TYPE.....20.99 |
| BATMAN.....20.99 | GAUNTLET 2.....20.99 | REVENGE OF THE GATOR...18.99 |
| BILL AND TED'S | GHOSTBUSTERS 2.....18.99 | ROBOCOP.....20.99 |
| EXCELLENT ADVENTURE...23.99 | GOLF.....17.99 | SIDE POCKET.....18.99 |
| BLADE OF STEEL.....20.99 | GREMLINS 2.....20.99 | SKATE OR DIE.....18.99 |
| BOULDER DASH.....20.99 | HOME ALONE.....20.99 | SNEAKY SNAKES.....20.99 |
| BOXLE.....13.99 | HOOK.....20.99 | SNOOPY'S MAGIC SHOW...20.99 |
| BUBBLE BOBBLE.....20.99 | HUNT FOR RED OCTOBER...20.99 | SOLOMON'S CLUB.....20.99 |
| BUBBLE GHOST.....18.99 | JORDAN VS BIRD.....22.99 | SPIDERMAN.....18.99 |
| BUGS BUNNY.....18.99 | KICK OFF.....20.99 | SUPER MONO LAND.....18.99 |
| BURAI FIGHTER DELUXE...13.99 | KID ICARUS.....18.99 | SUPER RC PRO-AM.....20.99 |
| BURGERTIME DELUXE...18.99 | KUNG FU MASTER.....13.99 | TEENAGE MUTANT |
| CASTELIAN.....22.99 | KWIRK.....18.99 | HERO TURTLES.....20.99 |
| CASTLEVANIA.....13.99 | MARBLE MADNESS.....20.99 | TENNIS.....17.99 |
| CEASARS PALACE.....20.99 | MEGA MAN.....18.99 | TERMINATOR 2.....20.99 |
| CENTPEDE.....18.99 | MICKY MOUSE.....20.99 | TRACK MEET.....20.99 |
| CHASE HQ.....20.99 | MISSILE COMMAND.....18.99 | TRAX.....18.99 |
| CHOPFLIFTER 2.....20.99 | MOTOR CROSS MANIACS...13.99 | TURRICAN.....22.99 |
| DOUBLE DRAGON.....18.99 | NAVY SEALS.....18.99 | TURTLES.....24.99 |
| DOUBLE DRAGON 2.....20.99 | NEEMESIS.....18.99 | WIZARDS AND WARRIORS...18.99 |
| DR FRANKEN.....22.99 | NINTENDO WORLD CUP...18.99 | WWF SUPERSTARS.....20.99 |



- GAMELIGHT FOR DARK OR DIM LIGHT.....9.99
- MAGNIFIER
(2X MAGNIFICATION).....9.99
- AMPLIFIER FOR GAMEBOY (STEREO SOUND).....9.99
- MAGNIGHT FOR GAMEBOY (COMBINED MAGNIFIER AND LIGHT) 13.99
- LOGIC 3 PROTECTOR CARRY CASE 9.99
- LEDA CARRY CASE FOR GAMEBOY WITH SCREEN CLEANING KIT (STORAGE SPACE FOR EARPHONES, SCREEN CLEANING KIT AND 4 GAMES) 9.99
- NUBY GAME PAK CARTRIDGE CASE (HOLDS 12 GAMEBOY GAMES) 9.99
- KONIX G.B. HOLSTER FOR GAMEBOY (ATTACHES TO BELT) 8.99
- NAKI ACTION PACK RECHARGEABLE BATTERY FOR GAMEBOY (GIVES FIVE HOURS OF POWER - SLOTS INTO BATTERY COMPARTMENT) 19.99
- CLEANING KIT FOR ALL HAND-HELDS HOLSTERS AND BELT WITH CARTRIDGE POUCH (SHOWN IN TOP LEFT PICTURE).....6.99
- 4-PLAYER ADAPTOR FOR GAMEBOY.....19.99
- STEREO EARPHONES (SEE PICTURE IN LYNX SECTION).....3.99
- GAMEBOY BATTERY PACK (RECHARGEABLE).....23.40

ANNUAL MEMBERSHIP
UK £6.99 EEC £8.99 WORLD £10.99
We only supply members but you can order as you join.

The Special Reserve full colour club magazine **NRG** is sent to all members bi-monthly. **NRG** features full reviews of new games plus mini-reviews, all the gen on new products, the Special Reserve charts, Release Schedule of new games and hundreds of special offers.
PLUS - EVERY ISSUE CONTAINS £30 worth of money-off coupons to save even more money off our amazing prices.

We sell games and accessories, all at amazing prices, for Megadrive, Master System, Game Gear, Super NES, Gameboy, NES, Lynx, Amiga, Atari ST, IBM PC, CDTV and IBM CD ROM.

Best Service, Best Prices, Biggest Selection
That's why over 100,000 people have joined Special Reserve.

SUPER NES NOW IN STOCK

INEVITABLY, SOME GAMES MAY NOT YET BE RELEASED. PLEASE PHONE SALES ON 0279 600204 FOR LATEST RELEASE DATES AND STOCK AVAILABILITY.



Game Gear with Columns
FREE Mains Adaptor
FREE Membership
99.99

- | | |
|-------------------------------------|----------------------------------|
| AXE BATTLER.....24.99 | PAPERBOY.....23.99 |
| BATMAN RETURNS.....25.99 | PENGO.....17.99 |
| CHESS MASTER.....23.99 | PSYCHIC WORLD.....17.99 |
| COLUMNS.....20.99 | SENNA SUPER MONACO.....25.99 |
| CRYSTAL WARRIORS.....27.99 | SHINOBI.....19.99 |
| D.ROBINSON BASKETBALL...24.99 | SLIDER.....19.99 |
| DELISH.....19.99 | SOLITAIR POKER.....18.99 |
| DONALD DUCK.....24.99 | SONIC THE HEDGEHOG...24.99 |
| DRAGON CRYSTAL.....18.99 | SPACE HARRIER.....19.99 |
| FANTASY ZONE GEAR.....23.99 | SPIDERMAN.....24.99 |
| G-LOC.....18.99 | SUPER KICK OFF.....24.99 |
| HALLEY WARS.....24.99 | SUPER MONACO GP.....19.99 |
| JOE MONTANA (U.S.) FOOTBALL...19.99 | TERMINATOR.....24.99 |
| LEADER BOARD.....19.99 | WIMBLEDON TENNIS.....24.99 |
| MARBLE MADNESS.....24.99 | WONDER BOY.....17.99 |
| MICKY MOUSE.....19.99 | WONDERBOY - DRAGONS TRAP...24.99 |
| NIJJA GAIDEN.....18.99 | WOODY POP.....17.99 |
| OLYMPIC GOLD.....23.99 | YOUNG INDI.....25.99 |
- CAR ADAPTOR FOR GAME GEAR.....17.99
- GEAR TO GEAR CABLE (LINKS TWO GAME GEARS).....5.99
- SEGA MAINS ADAPTOR FOR GAME GEAR (GENUINE ITEM).....9.99
- LOGIC 3 MAINS ADAPTOR FOR GAME GEAR.....7.99
- STEREO EARPHONES (SEE PICTURE IN LYNX SECTION).....3.99
- WIDE GEAR MAGNIFIER FOR GAME GEAR.....14.99



- GEAR MASTER CONVERTER (ENABLES USE OF MASTER SYSTEM GAMES ON GAME GEAR) 17.99
- BEESHU MAGNIFIER FOR GAME GEAR 11.99
- BATTERY PACK FOR GAME GEAR (RECHARGEABLE FROM MAINS ADAPTOR) 29.99
- LEDA CARRY CASE FOR GAME GEAR WITH SCREEN CLEANING KIT (STORAGE SPACE FOR BATTERIES, MAINS ADAPTOR, SCREEN CLEANING KIT AND 8 GAMES) 12.99
- CARRYBAG FOR GAME GEAR 10.99
- SEGA TV ADAPTOR FOR GAME GEAR (TURNS GAME GEAR INTO HANDHELD TV) 64.99
- LEDA STORAGE RACK FOR CARTRIDGES (STACKABLE) 9.99



Game Gear with Sonic The Hedgehog Sega Mains Adaptor
FREE Super Monaco Grand Prix WORTH 19.99
FREE Special Reserve Membership WORTH 6.99

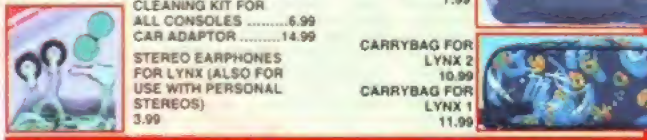
Game Gear with Sonic The Hedgehog Sega Mains Adaptor
129.99



Atari Lynx 2 with Batman Returns game
FREE Mains Adaptor
FREE Special Reserve Membership

Atari Lynx 2 with Batman Returns game
99.99

- Specifications for Lynx 2:
Back-lit colour screen for night or day playing. 4096 colours. 64K RAM. 4 channel sound. Powerful 16MHz processor. 8 meg game capacity.
- ATARI MAINS ADAPTOR FOR LYNX (GENUINE ITEM).....14.99
- ATARI KIT CASE FOR LYNX, ACCESSORIES AND GAMES.....16.99
- COMLYNX MULTI-PLAYER CABLE.....9.99
- CLEANING KIT FOR ALL CONSOLES.....6.99
- CAR ADAPTOR.....14.99
- STEREO EARPHONES FOR LYNX (ALSO FOR USE WITH PERSONAL STEREO) 3.99
- BATTERY PACK FOR LYNX (REQUIRES SIX HP2 BATTERIES) 7.99
- SUN VISOR-SCREENGUARD FOR LYNX 7.99
- CARRYBAG FOR LYNX 2 10.99
- CARRYBAG FOR LYNX 1 11.99



Over 100,000 people have joined Special Reserve The club with no obligation to buy
Phone 0279 600204 for a free COLOUR catalogue

Inter-Mediates Ltd. Registered Office: 2 South Block, The Maltings, Sawbridgeworth, Herts CM21 9PG.

WE ONLY SUPPLY MEMBERS BUT YOU CAN ORDER AS YOU JOIN
THERE IS A SURCHARGE OF 50p PER GAME ON TELEPHONED ORDERS
(PLEASE PRINT IN BLOCK CAPITALS)

AMFORM 22

Name _____

Address _____

Postcode _____

Telephone _____ Machine type _____

Enter membership number (if applicable) or Membership £6.99 UK, £8.99 EEC, £10.99 World

Item _____

Item _____

Item _____

Item _____

ALL PRICES INCLUDE UK POSTAGE & VAT £ _____

Cheque/P O / Access/Mastercard/Switch/Visa / Switch Issue No. _____

Credit card expiry date _____ Signature _____

Cheques payable to: **SPECIAL RESERVE**
P.O. BOX 847, HARLOW, CM21 9PH
Overseas Orders: EEC software orders - no extra charge
World software orders please add £1.00 per item.
Non-software items please add 10% EEC or 25% World.
Overseas orders must be paid by credit card.

MegaTraveller 2 Competition



THE QUEST FOR THE ALIENS
Fancy yourself as a bit of a space cadet? Reckon you know lots about the final frontier? Then why don't you enter our especially excellent MegaTraveller 2 competition?

YOU COULD WIN:

- A copy of Empire's new *MegaTraveller 2* computer game...
- A table-top version of the *MegaTraveller* role-playing game...
- AND
- A VHS copy of the spectacular *Aliens Special Edition* video from 20th Century Fox.

All you have to do is answer the five simple questions below and jot down your solutions on a postcard or the back of a sealed envelope. Then send it in to the address below, and the first 15 correct sets of answers out of the hat get a goodie-pack as listed above. What could be simpler?

The questions...

- 1** Who was the designer of the original Traveller role-playing system?
 A John S Waddington
 B Jean-Luc Pickard
 C Marc W Miller
- 2** In table-top role-playing terms, what is a d10?
 A A futuristic weapon
 B A ten-sided die
 C A measure of character strength
- 3** What does NPC stand for?
 A Non-player character
 B Non-playing creation
 C Non-personal character
- 4** What was the sub-title of Empire's computer game, *MegaTraveller 1*?
 A The Zilmex Confederation
 B The Zhodani Conspiracy
 C The Zehrani Conscripton
- 5** How many planets are there to explore in the computer version of *MegaTraveller 2*?
 A 117
 B 79
 C 223

Got it?

Yep? Then send your answers to:
WANDERING SPACE-CRUSTY COMPO
AMIGA FORMAT
30 MONMOUTH STREET
BATH, AVON BA1 2DL

The Gravity of Laws...

All entries must arrive on or before Friday 18 September 1992 to be considered for the draw.

The competition is open to everyone, except employees of Future Publishing, Empire, GDW, 20th Century Fox, Sam's Intergalactic Burger Bar, Captain Slogg's Tar Date 2077, The Borgias, Julius Caesar and Friends, Romans or Countrymen Inc., or the Illuminati.



The biggest change between *MegaTraveller 2* and *1* is how space travel is used, with a simple menu system to control positions on board ship. The view screen changes as you go, to reflect differences between planets. But disk swapping is tiresome, hard drive or twin floppy systems are recommended.

Boldly travelling where no alien has gone before, the sequel to Empire's flawed RPG sci-fi adventure has finally arrived. Forget fisticuffs and get thinking.

Imagine living 5,000 years in the future. Try to get your head around the concepts of travelling from star to star, planet to planet. Think of all this as commonplace and a huge Imperial government overseeing the situation. That's the setting for *MegaTraveller*.

These ideas are not particularly novel – the Traveller role playing game was born in the late sixties and early seventies. It has influenced many parts of the science fiction world. The mind behind it was Marc W Miller. After the lukewarm reception of the first computer version of his system (*The Zhodani Conspiracy*) the inventor was called in to help with the design of this follow up.

The Quest for the Ancients takes a lot of its background details and plots from very early Traveller books. These have been enjoyed many times by pen and paper Travellers, and so were thoroughly play-tested for the computer version.

Hundreds of thousands of years ago, an exotic race called the Ancients flourished for a very short time. They did lots of amazing things: like build starships, transport aliens (including humans) around the galaxy, move planets and suns around, and had a technology so advanced that even 5,000 years from now, people cannot fully fathom it.

Then, for reasons unknown, they left. Did

a runner, blew town – they vanished. They left a lot of artifacts and ruins for archaeologists to ponder over. It's at one such site that the game begins. For no apparent reason, one of the Ancient machines begins to work, producing a corrosive slime. And it doesn't stop.

The planet where it all begins (Rhylanor) is doomed within seven years unless your party can find a means of turning off the machine. Of course, a reward commensurate with saving a planet is offered – but you aren't in it for the money, are you?

Play the role

RPGs are about assuming the identity and viewpoint of an individual, and making decisions from their viewpoint. They usually have little to do with rocket-propelled grenades. Step one is to invent a group or 'party' of such individuals. *MT2* lets you play with a party of up to five characters. There are some ready-made, but it's more fun to make your own.

The first decision is the race of your character. As well as humans, evolved canines can also be selected – Vargr characters. Human Imperials refer to Vargr as "doggies" for obvious reasons, but Vargr have certain advantages. Gender is determined next.

After that comes the important question of statistics – how strong, dextrous, enduring,



A group of intrepid adventurers loaf on the street waiting for someone to talk to.



Star port security is very tight – but all illegal weaponry is returned when you leave a world.

INDIVIDUAL PLAYER CHARACTERS: HOW MEGATRAVELLER 2 MEASURES PEOPLE

This game uses a simple screen to show the skills and life story of the individuals you play with. So easy!

This shows the former career of a character (Vargr can have more than one) and name of the character.

The race and sex of the character appear here. Hits is a measure of how tough they are. Financial status matters; retired characters get an annual pension to boost this.

The vital statistics! These vary from zero to 15 – the higher they are the better. Physical statistics go down with age.

The screenshot shows a character profile for Doctor Shannon Amore (ret.). At the top, five character portraits are visible: J. Dourne, Sly Rawlings, Shannon Am, Knuckszzo, and Riats. Below the portraits are buttons for 'USE', 'EXCHANGE', 'SKILLS', 'EXAMINE', and 'DROP'. A 'OBJECT LIST' shows a 'Sub Machine Gun Confiscated' and a 'Low Passage' ticket. On the right, a list of skills is shown: biology, chemistry, computer, electronics, grav vehicle, medical, persuasion, physics, streetwise, and smg. At the bottom left, the character's stats are listed: Female Human, Hits 9/9, £110,500, Age 42, UPP 7988CS, Bank Account £31,733, str 7, dex 9, end 8, int 8, edu 12, soc 5.

Skills are used to measure success or failure at tasks in the game. As a retired doctor, she has impressive skills at Medical – but her combat skills are very limited. Streetwise is used to communicate with persons of low social status (criminals). Dr Shannon Amore has been around!

This character has very little in the way of goods and chattels. Her sub-machine gun has been confiscated at the star port (Stealth skill helps to conceal weapons) but at least she has a low passage space ticket in case she needs to get off the planet quickly.

MegaTraveller 2

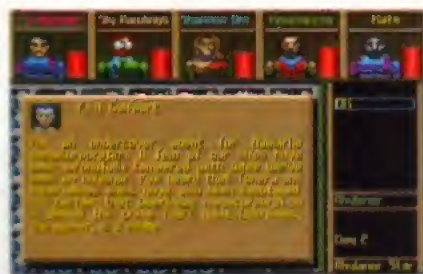
intelligent, knowledgeable and affluent a character starts out. It is very easy to keep 'rolling the dice' until a decent set of statistics shows up. A character has to start at age 18, and progress through a pre-game career before being able to adventure.

These pre-game careers vary from being an ex-member of the armed services, a professional (bureaucrat, diplomat, doctor and so on), a criminal (common rogue or space-going pirate), a law enforcer, or for those who like fantasy role playing – a barbarian, ignorant of high technology. Each class has its uses, and a good mixture is important to success.

Daunting at first glance, the character generation is quite simple to work through with a mouse – and it will produce as good a variation in characters as the real RPG. You also get a good, atmospheric piece of music too. All of the *MegaTraveller* rules are in there, including the Advanced Character generation (overly detailed – definitely not recommended except on wet Sunday afternoons).

Save the planet

You can play nearly the whole game with a mouse. To move, point at where you want to go – and the characters walk there. A nice touch is that they don't stay in a rigid group, but tag along in a random, realistic fashion.



Interaction with NPCs is very simple, with few choices to make. This is how you make progress.

Some of the common functions are mapped onto keys. This saves time when you get used to the game.

The main viewpoint is sited directly above the characters. Most of the action takes place in settlements, although the occasional excursion to an Ancient site is necessary too. This view can be zoomed out, which is handy when trying to spot people you have to meet – 'Non Player Characters' or NPCs for short.

Success is achieved by meeting the right people with the right objects in your possession. Included in the box is a clue book, which details the full plot, all minor plots, all objects and all NPCs. This sort of thing costs a few quid more in the average role-playing game – but not with this one!

Space travel is handled entirely through menus. Reference to the star charts in the manual is heavily recommended – but once you know where you are going, getting from A to B is a doddle. If your characters didn't have a ship to start with, no problem – there are space tickets available in most cities.

What makes this game so much better



Space combat is very simple – target the enemy and keep clicking on fire. You usually win.

“ Even when you have completed the game, there's a lot a detail that you will have missed ”

than the original is the scale – the original coped with around a dozen star systems, *MT2* has 117. This means that it's no longer a hop, skip and jump to get to where you want – your route to save Rhyllanor has to be carefully planned in advance.

Seven years to save a planet may sound like a long time, but every jump from one planet to another takes a week. Even when you have completed the game, there's still a lot of detail that you will have missed – which makes playing it more than once much more fun than it was with the original.

My complaints are minor – some of the text messages don't get erased (which means that further messages are corrupted) and the point and click system can leave you jammed in a corner sometimes. Neither of these are major problems, and did not stop me from enjoying the game.

The sound effects are sparse, as are the opportunities for combat – but role-playing is about solving problems with brains, not with brawn. There is some fighting to be done (and some of the futuristic technology is awesome), but violence plays second fiddle in *MegaTraveller 2*. Recommended!

Pat McDonald

MegaTraveller 2 Empire ■ £29.99

- Large, detailed playing area.
- Simple yet comprehensive controls – it is usually obvious what you need to click on.
- Plot is enjoyable and different – no dungeons to wander in this game!
- Rewarding if you are patient.
- Clumsy interface, with rather poor overhead graphics and some minor bugs.



82%



DYNAMITE



PRICE CRASH NEW AMIGA 600

£329.95

- THE NEW AMIGA FEATURING**
- ★ ON SITE MAINTENANCE
 - ★ SMART CARD FACILITY
 - ★ BUILT IN TV. MODULATOR
 - ★ IDE HARD DRIVE CONTROLLER
 - ★ DELUXE PAINT III
 - ★ MYSTERY GAME
- SPECIAL INTRODUCTORY OFFER**
- A600 HD INC 20Mb HARD DRIVE **£459.95**
(THE HD VERSION DOES NOT INCLUDE DPAINT III OR A GAME)

★ AMIGA A500/PLUS PACKS ★

- 1.3 STANDARD A500 **£259.95**
- A500 PLUS STANDARD PACK **£309.95**
- A500 PLUS CARTOON CLASSICS **£324.95**

See our memory section to upgrade above

LIMITED SPECIAL OFFER

- ★ UNBEATABLE MONITOR DEALS, SAVE £££S
- COMMODORE 1084S **£199.95**
 - PHILIPS 8833 MKII **£184.95**
 - GOLDSTAR TV/MONITOR **£159.95**
- These prices are only applicable when a monitor is purchased with any Amiga. Add £15 if you wish to purchase them separately.

★ GREAT VALLEY PRODUCTS ★ 2 YEAR WARRANTY ★ HARD DRIVES ★

- A500:**
- SERIES II HD 8+ 52Mb ... **£334.95**
 - SERIES II HD 8+ 120Mb .. **£439.95**

- A1500/2000:**
- SERIES II HC 8+ 52Mb **£264.95**
(Configurations up to 420Mb 8Mb RAM available please call)

NEW HARD DRIVE + ACCELERATOR THE ULTIMATE A500 EXPANSION PRODUCT!

£659.95

A530 COMBO: 40Mhz Accelerator + *52Mb HARD DISK *1Mb RAM
* Up to 8Mb RAM and 120Mb/240Mb versions available call now

★ PC 286 EMULATOR ★

PC 286 16Mhz EMULATOR MODULE = **£219.95**
For the series II and A530 hard drives

Easy installation that does not invalidate your warranty

STEREO COLOUR MONITORS

COMMODORE
1084S
£214.95

PHILIPS
8833
MKII **£199.95**

FREE F19 Stealth Fighter + 12 month on-site maintenance

* CABLE TO YOUR COMPUTER ONLY £3.99 WHEN PURCHASED WITH MONITOR

★ DISK DRIVES ★ ALL OUR DRIVES INCLUDE:

TEN x 3.5" DISKS + 3.5" CLEANER KIT
FREE OF CHARGE!!

- ✦ DIRECT A500 INTERNAL REPLACEMENT **£39.95**
- ✦ CUMANA CAX 354 Slimline design .. **£49.95**
- ✦ Power PC880E Featuring Anti-click device **£49.95**
- ✦ Power PC880B with Blitz/virus hardware **£69.95**

* This offer will run for a limited period only *

AMIGA CDTV SUPER DEAL

£349.99

Save £250 by trading in your Amiga 500 for a multimedia pack:

- * AMIGA CDTV * KEYBOARD
- * FLOPPY DISK DRIVE * MOUSE

CALL NOW FOR DETAILS
* OFFER CLOSES END OF SEPTEMBER

AMIGA 1500 PACK

- FEATURING:
- ★ LATEST MODEL, INCORPORATING Workbench, Kickstart 2.0
 - ★ GETTING THE MOST OUT OF YOUR AMIGA (book)
 - ★ PLUS:- Home Accounts, Platinum Works, Deluxe Paint III, Puzznic, Elf & Toki **£539.95**

This machine is designed for use with a monitor (SEE OFFER), or a TV modulator can be bought for £19.99

KLONDIKE DEALS

DYNAMITE COMPUTERS
DIG DEEP FOR
THESE SPECIAL
BARGAINS.....

★ AMAZING SOFTWARE CLEARANCE ★

THIS MONTHS SPECIALS: AGONY £12.99, LAZER SQUAD + CHAOS £8.99

- * Back To The Future II£3.99
- * Nightbreed£3.99
- * Days Of Thunder£3.99
- * Heroes Of The Lance£3.99
- Shadow Of The Beast II£4.99
- Captain Planet£4.99
- Lemmings£4.99
- Bubble Bobble£4.99
- Head Over Heels£4.99
- Colossus Chess X£5.99
- Ninja Rabbits£5.99
- Battleships£5.99
- Pacmania£5.99
- Immortal£7.99
- Bart Simpson£7.99
- Horror Zombies£7.99
- * TV Sports Football£7.99
- Megalomania£9.99
- Populous + Lands£9.99
- * Pro Tennis£12.99
- Barbarian II£12.99
- * Jimmy White£12.99
- WWF£12.99
- Terminator 2£12.99
- Cisco Heat£12.99
- Outran Europa£12.99
- 4D Boxing£12.99
- * Wolfpack£12.99
- Chessmaster 2100£14.99
- Astra Ten Games£17.99

HURRY HURRY - LIMITED STOCKS AVAILABLE
NB * denotes not A500 Plus/A600 Compatible

COMPUTERS

THE PRICE BLASTERS

★ ART STUDIO★

Deluxe Paint II	£9.99
Spritz Paint	£9.99
Deluxe Paint III.....	£14.99
Fantavision	£14.99
Comic Setter	£19.99
Photon Paint V2.0.....	£19.99
Deluxe Paint IV	£54.99
Walt Disney Animator	£64.99
Professional Draw V.2.	£89.99

★ VIDEO STUDIO★

Vidi Amiga + Vidi Chrome	£69.99
Rombo RGB Splitter.....	£39.99
Take 2 Animation Package	£34.99
Complete Colour Solution.....	£99.99
Colour Solution + Take 2	£129.99
Rocgen Genlock.....	£84.99
Rocgen Plus Genlock.....	£129.95
Scala 500.....	£69.95
Scala (requires 1Mb)	£149.95
Roctec Genlock	£99.95

★ SOUND STUDIO★

Music X Junior	£19.99
Midi-Master Interface + 2 Midi Cables + Music X Junior.....	£29.99
Music X 1.1	£49.99
Rombo Mega-Mix.....	£29.99
GVP Sound Studio.....	£49.95
Bars and Pipes	£89.95
Bars and Pipes Pro.....	£179.95

HOW TO ORDER



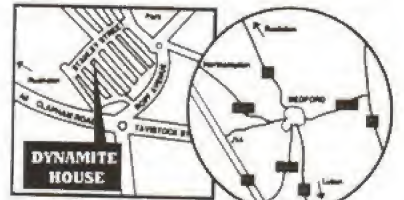
Call us NOW on
0234 214212



Send Cheque or postal order to
DYNAMITE COMPUTERS
Dynamite House
44a Stanley Street
Bedford MK41 7RW

NB Please write cheque guarantee card number on the reverse of cheque to ensure same day clearance (cheques without card number subject to 10 day clearance)

Call into our showroom for a fast and friendly service
Retail/Queries **0234 364428**

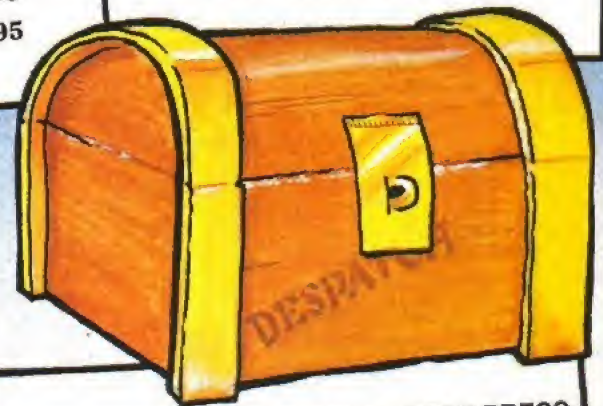


DELIVERY CHARGES*
£2.95 for orders less than £100
£4.95 for orders over £100
Next day express service £7.50
Saturday delivery only £15.00

*Charges applicable to UK mainland only

PLATINUM SERVICE CARD
Only £19.99!

Features: ● Next day courier delivery
● 30 day exchange for new
● 1 year guarantee giving free collection and delivery should a fault occur.
All prices subject to availability and may change without notice. E & OE



STOP PRESS ● STOP PRESS ● STOP PRESS
PUBLISHERS CHOICE SCOOP*

COMPRISES: TUTORIAL, KINDWORDS 2
(WORDPROCESSOR) PAGESETTER +
HEADLINE FONTS + ARTISTS CHOICE (EASY DTP)

This pack used to come with the Amiga 'Class of 90's' Pack but we've managed to source a few and are able to offer them at the giveaway price of **£19.95**

* N.B. This package is **NOT** Plus/A600 compatible

★ STAR/CITIZEN★ PRINTERS

CITIZEN 120D+	£109.95
STAR LC20	£119.95
CITIZEN SWIFT 9.....	£169.95
STAR LC200	£169.95
STAR LC24-20 (NEW).....	£179.95
STAR LC24-200 (MONO)	£199.95
CITIZEN 224	£209.95
STAR SJ48 BUBBLEJET	£214.95
STAR LC24-200 (COLOUR)	£249.95
† CITIZEN SWIFT 24e.....	£264.95

† Complete with free colour kit whilst stocks last

ACCESSORIES

PARALLEL PRINTER CABLE.....	£3.99
UNIVERSAL PRINTER STAND.....	£3.99
200 SHEETS OF CONTINUOUS PAPER.....	£1.99
COLOUR KIT OPTION FOR SWIFT 9/224/24e.....	£34.95

★ POWER HAND SCANNER★

FEATURING:

- ★ LATEST VERSION 2 SOFTWARE
- ★ 64 GRAYSCALES
- ★ 100 - 400 DPI

PLUS FREE PHOTON PAINT 2.0 (RRP £89.95)
A DYNAMITE EXCLUSIVE AT £99.95

★ MEMORY ★

512K RAM EXPANSION (1.3).....	£15.95
512K RAM EXPANSION PLUS CLOCK.....	£19.95
1MB RAM EXPANSION (A500 PLUS).....	£29.95
1Mb by 8 SIMM boards (GVP).....	£26.95

A500 RAM BOARDS

(fully auto config/full thru' port)

2Mb	£119.95
4Mb	£179.95
8Mb	£279.95

ACCESSORIES/EXTRAS

10 BLANK DISKS (3.5 DS/DD).....	£3.99	ZIPSTICK SUPERPRO JOYSTICK	£9.99
50 BLANK DISKS (3.5 DS/DD).....	£17.99	QUICKJOY TOP -STAR JOYSTICK	£14.99
QUALITY MOUSEPAD.....	£1.99	AMIGA SOFT DUSTCOVER	£3.99
40 CAPACITY LOCKABLE BOX.....	£2.99	AMIGA PERSPEX DUSTCOVER.....	£9.99
80 CAPACITY LOCKABLE BOX.....	£4.49	REPLACEMENT MOUSE	£9.99
ROLL OF 1000 3.5" DISK LABELS.....	£6.99	REPLACEMENT TV MODULATOR.....	£19.95
MOUSE/JOYSTICK Switcher box unit.....	£9.95	REPLACEMENT POWER SUPPLY.....	£29.95

TO PLACE YOUR ORDER PHONE THE DYNAMITE HOTLINE

0234 214212

DYNAMITE HOUSE, 44A STANLEY STREET, BEDFORD

AMIGA POWER

The magazine with the right attitude.

**"Bow down
before the one
you serve,
you're going
to get what
you deserve"**

IF YOU WANT...

1. Exclusive first reviews of games so new they're not actually finished yet
2. Reviews which pander to the publishers, and crawl and snivel to the programmers
3. Writers trying so desperately to be 'street' that they've forgotten to learn to write
4. Mountains of technical-jargon-hardware-tedium

then
DON'T READ...

**AMIGA
POWER**

"Head Like A Hole"
Nine Inch Nails
TVT Records 1989

AND

A rock'n'roll apoca
acts. Find out why,
AMIGA POWER. On

**BRITAIN'S
BEST-SELLING
AMIGA GAMES
MAGAZINE!**

SPACE!
Have you
won a job
at Bullfrog?

SCHWING!
Links putts its
money where
its mouth is

**Future
PUBLISHING**
Your
guarantee
of value

9 770961 731015
ISSUE 16 £3.75 AUGUST

AMIGA POWER

A MAGAZINE WITH ATTITUDE



RIDE!
Crazy
Cars III
leaves them all behind

**MAGIC?
WELL, IT
MIGHT
JUST
BE...**



**US Gold
serve up
another
slice of
fighting
fantasy
with
Might &
Magic III**

**DESIGN
A GAME!
AND WIN AN
A600 WITH
HARD DRIVE!**

YOURS WITH ISSUE 16 OF AMIGA POWER

D/GENERATION

disk 16

Battle the evils of virtual reality in a huge and thoroughly exclusive playable demo from Mindscape.

AMIGA POWER

YOURS WITH ISSUE 16 OF AMIGA POWER

DOJO DAN

The Sales Curve get cute and cuddly with a mad and manic new platform-puzzle thing.

AMIGA POWER

LOCOMOTION

Station! DMI go train crazy in an off-the-rail experience. Chuff chuff!

disk 16

AMIGA POWER

REVIEWED! D/GENERATION, CIVILIZATION, ASHES OF EMPIRE, DOJO DAN AND MORE...
PLUS: 9 FACT-PACKED PAGES OF TIPS TO MAKE YOU GO 'MMM'

ISSUE 16

NEXT ISSUE:

...but if you want an Amiga magazine full of the only reviews you can believe in (this month including Ashes Of Empire, Crazy Cars III, Links and Civilization), competitions that you'd actually want to win, and stuff about games from people who know what they're talking about - well, you know where to come
Eclipse, as AMIGA POWER gets into the groove with the nation's top chart and discover just how the latest games rate, in the September issue of sale Thursday 20th August.

Take one outdated, massive American eight-engined bomber. Add a pinch of trendy stealth technology and stir in the melting pot of modern combat.

Everybody must have heard of the B-52 bomber. I mean, they were used in Vietnam, they were used in the Gulf, they've even had a band named after them. Not bad going for a big, ugly, out-of-date strategic bomber.

The B-52 Stratofortress (as it's properly known) has had a hard time of late. What with all these new-fangled supersonic stealth aircraft, nobody seems to want a lumbering eight-engined bomber with the radar signature double that of an Italian opera-singer. Scrapheap here we come.

But perhaps not. A chap called Dale Brown, who apparently used to navigate with the USAF on these babies, wrote a book in 1987 about a B-52 which was modified at Dreamland, the secret aeronautical works deep within Nellis Airforce Base. The plane was given all the stealth characteristics so in vogue at the moment. He called it the Megafortress.

And here's the game of the book. What you've got is a completely black plane that flies almost exclusively at night, with no lights on, and tries to avoid everything it picks up on radar. So you can forget your G-LOC dog-fighting skills - it's time to get defensive.

Rock lobster

First you must learn to fly the beast. This means sussing out not one but five vital on-board stations, one for each crew-member. If it sounds complicated, that's because it is. For

The Terrain Following Radar, linked to the autopilot, will actually avoid hills and other obstacles. But it's more fun to take the B-52 down low and fly it yourself.



Megafortress

example, if you want to get the thing off the ground (and it is desirable for most of the missions), you must flick loads of switches in the commander's position, then swap to the co-pilot's seat to flip some more, then swap back.

To operate the switches and levers, you must use the mouse. Click on each button and the computer switches it to whatever it wasn't switched to before. Once you get used to this, you can actually fly round most of the panels, clicking away and getting the flight systems running with surprising rapidity. But it does take a while to get used to it.

As well as the two actual pilots, there's a navigation station, an offensive-weapons console, and an electronic warfare operator (see panel). You'll need to be familiar with

each if you're going to get anything done. There are three theatres you can operate the Megafortress in. Red Flag in Nevada is a training area, which gives you some mock-up baddies for you to avoid, as well as bombing ranges, air-to-air refuelling points and missile bases to hide from.

Then there's the Gulf. Yes, it's time to go up against Iraq once more, as you fly much the same sort of missions. This time, though, the enemy is real. They're angry, they're numerous and they don't like huge black planes flying over their territory.

If that doesn't pucker you enough, then there's always 'The Flight of the Old Dog'. Taken directly from Dale Brown's book, this sees you belting across Kamchatka in an



THE DREAM TEAM

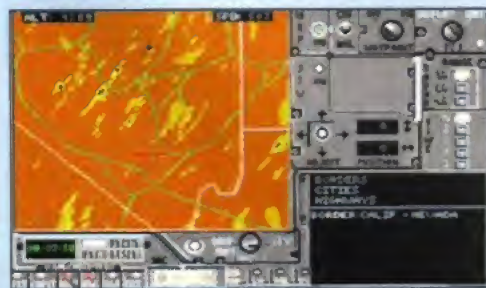
It's tough enough playing the part of one modern jet pilot, but in *Megafortress* you have to become five highly skilled airmen at once. Although this means concentrating on the manual, it does make the game more varied. But the question is, do you get their combined salaries (plus danger money) at the end of every combat mission?



The Commander's view. This is where you do the real 'flying' from. Taking off, landing and evasive manoeuvres need outside views, so you'll have to be at this station to carry any of these out.



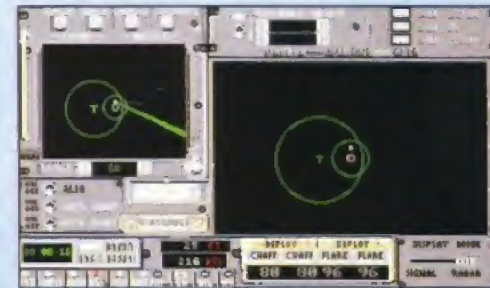
This is the Co-pilot's view. Here you'll find most of the non-essential controls. Electrics, lights, radios and all that type of nonsense are all controlled from the co-pilot's station.



The Navigator's view. Loads of maps, obviously. But as well as maps, there's a large dollop of radar equipment, distance measuring gear and other useful tracking devices to get you home.



The Offensive Weapons Officer's view. Search radar, guidance cameras, missiles, bombs, the lot. You name it, this guy can destroy it. They're all here: free-fall bombs, guided air-to-surface missiles and air-to-air.



The Electronic Warfare Officer's view. He's first to know when anything's aiming at the Megafortress. He'll jam it, confuse it, chaff it and, when all that's failed, he'll pray at any deities he believes in.



Taking the Megafortress through the mountains is one way of guaranteeing secrecy. But you've got to be confident that taking a massive bomber through a small gap at high speed is actually a viable proposition first.

effort to knock out a special laser developed by the USSR for use against good, honest Americans everywhere.

You have to beat the best Soviet equipment both on the ground and in the air during this mission, and, seeing as you're the only idiot that is stupid enough to actually try this sort of a caper, you've got no support from any of the other US forces. It's a big mission, and it's packed with nerve-shredding tension almost from start to finish.

How this game differs from many flight sims is its time-scale is more realistic. This means each mission takes a while (about half-an-hour or more) and for much of the time you're sitting waiting for the action to start as you drone across the night-time landscape on autopilot at about 200 feet. But if you're having a go at the Old Dog mission, the tension really gets to you as the minutes tick past.

Megafortress is reminiscent of *Birds Of Prey* in that it's not a climb-in-and-fly sim. You do have to know the manual, and there are those five stations to master (see *The Dream Team* box). But the control-panel, switch-clicking business works better than you'd think, and it's fairly forgiving when you're in a hurry.

The game is let down by the long disk-accessing pauses as you switch from station to station. The actual update rate isn't quite fast enough, either. Also, you only get to fly the Megafortress at night. This makes sense plot-wise, but it limits the gorgeousness of the outside views somewhat. It's a pity because there would otherwise be some great external views. What you actually end up with is a black angular shape whizzing over a load of dark grey shapes on the ground.

Love shack

Because it's a hulking great bomber, the combat action in *Megafortress* is far removed from the usual manic panic. Instead of climbing, diving, weaving and generally chucking the plane around, you have to concentrate more on

electronic warfare at the Offensive Weapons Officer's station. This gives it a nice tactical edge, and when you finally manage to fend off an attack on your ship, it's very satisfying.

But on the whole, *Megafortress* lacks the edge which would place it up there with the *F19s* and *AH73s*. There's just too much techie clicking and disk accessing and just not enough fast, furious action. The novelty of flying a one-off B-52 soon pales and you'll need to be dedicated if you're going to stick with the game through all of the available missions.

The supplied documentation is good, though, especially when you bear in mind the 'special price', and the level of detail is impressive if you're impressed by that sort of thing. Like *Space Shuttle*, *Megafortress* borders on the educational, and again like *Shuttle*, this is to the detriment of the seat-of-the-pants playability.

James Leach ☺

Megafortress Mindscape ■ £19.99

- Loads of missions and plenty of atmosphere for a flight sim.
- Slow and cumbersome to play, and each mission takes ages to complete.
- Paradise for technical switch, button and dial freaks.
- Attractively priced, especially as it comes with some very clear, comprehensive and readable documentation.
- The outside views are dark and rather dreary, and the external views of the plane aren't too hot either.
- Gives you five demanding on-board jobs to do rather than just one.



77%

B-17 Flying Fortress



"I'll never forget my first time.

I was eighteen years old and still wet behind the ears.

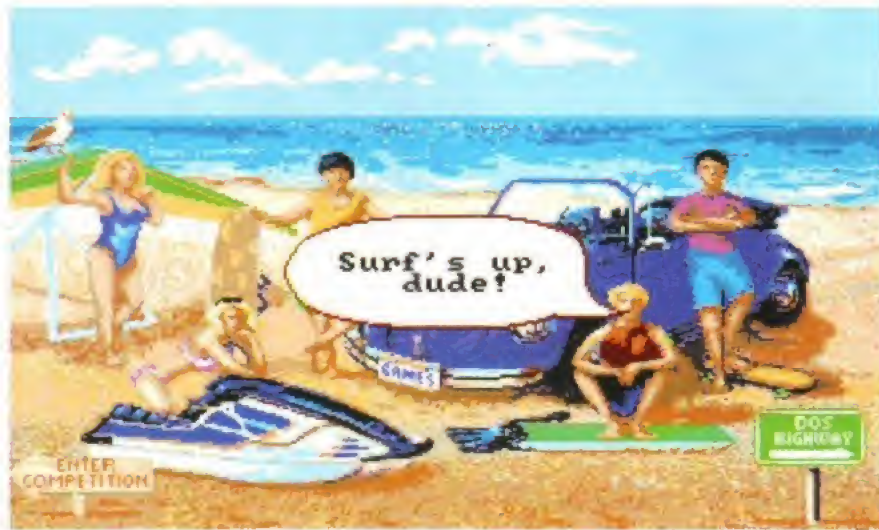
She guided me gently through all those fraught, nervous days. Proud, haughty and oblivious to all danger."

B-17. It's a flying experience you'll never forget.

B-17 FLYING FORTRESS

Released first on IBM PC Compatibles, followed by Commodore Amiga and Atari ST.
MicroProse Ltd. Unit 1
Hampton Road Industrial Estate, Tetbury, Glos. GL8 8LD, UK. Tel 0666 504 326.

MICROPROSE
SIMULATION • SOFTWARE



Welcome to the sunny beaches of California, where kids spend all day lazing round on the sand, talking their own language and playing their own sports. Yep, they're an unusual bunch of people and you can become one of them when you choose a game from this selection screen...

The rocky tunes don't make up for the rocky and rough gameplay, though.

While *California Games 2* tries hard, and up to eight people can compete against each other, there are not enough events or enough variety in those events to keep you playing for very long. The simple joystick controls make it initially accessible but don't help the gameplay in the long term, although some may like reminiscing about similar games of the past, back when the C64 ruled the roost and *California Games* was the game to have.

Here we have a game that lives up to the fast-paced lifestyle of the place it's based on, where trends change quickly and the past is soon forgotten - if you get the game you'll soon forget about it and, like the hula-hoop, it will be destined for the back of your closet.

Tim Howell

California Games 2

California Games 2
Epyx/US Gold ■ £25.99

- A variety of Californian events make the game initially interesting...
- ...but when you start playing you find the gameplay tedious.
- Graphics only use 16 colours making the game look like a port.
- Simple controls help to make the game accessible but not very satisfying.
- In the end it's just like California - pretty but not a lot of substance...

Verdict **64%**

AMIGA FORMAT

76

SEPTEMBER 1992

Yo dudes! Come on down to the Californian coast where sun, sea and surf are there for the taking; where there's action all day and all night; and, as it happens, where this game is based.

The earlier *California Games* failed to create much of an impact on the Amiga. This latest version is in the Epyx style and consists of several different events all related to the sun, sea, surf and snow (!), and they all involve simplistic controls and methodical joystick movements.

As for the events themselves, what's on offer? There are five sports of the Californian variety: hang-gliding, jet surfing, snowboard-

ing, bodyboarding and of course that Stüssy favourite: skateboarding. They're a mixture of some known, and not so well-known, pastimes of the wacky residents of California, but they're also mixed in terms of enjoyment.

Bogus

Graphically, the games don't use the Amiga's abilities very well. The events are displayed in only 16 colours and while they look quite detailed and bright, they could have been much better. Some colourful title screens introduce many of the sections. Sound-wise there are some appropriate tunes, such as the rather ominous Wipeout on the bodyboarding event.

CALIFORNIA GAMES 2 - WHAT THE EVENTS ARE ALL ABOUT...

California Games 2 is based on five separate sub-games, each one different from the other, but all of them based on supposedly common Californian recreational activities. Pick your sporting vehicle, whether it be a hang glider, skateboard or surfboard, and be prepared to risk life and limb as you compete in these parochial pastimes. Here's what you have to do...



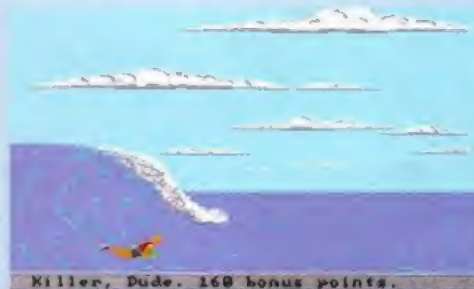
Hang-gliding involves you flying (surprise, surprise) a hang glider off a cliff and over the sea. You have to drop five water bombs on three targets in the water. Fun, eh? There's a bit more to it - you can loop the loop in your glider if you time things right - but not much, and generally the whole thing is tedious.



Jet surfing is a poor man's version of any first-person perspective racing game, just that you're on a jet ski rather than a car. Race round buoys making sure you stay between them. Movement is limited, but you have a choice of skis and characteristics, though they are rather sluggish and unrealistic.



Once you parachute on to Mount Epyx, you begin the snowboarding event. This is viewed from a side-on angle which makes the event visually different. When you finish the first part you enter the Snowbowl. Here you ride your board on a half pipe, performing turns and handstands. Fun for a while.



You get the chance to go bodyboarding next. This is like surfing, only you lie on the board. Anyway, after diving off the pier you manoeuvre the board on a wave, 'cutting', 'barrel rolling', and 'reversing off the lip', earning points as you do so. There's absolutely no excitement in this section.



The skateboarding section has you rolling through a long aqueduct, performing stunts as you go. It's simplistic, though better than the other sections, mainly because of its sense of humour. For example, if you're halfway up a pipe, you smash into the side of it and your brains are splattered all over the place.



B-17 Flying Fortress

It's a flying experience you'll never forget

In the Spring of 1942 the United States 8th Air Force landed in Britain. Its task to mount the aerial offensive in German occupied Europe. Striking in the daylight, from high altitude, at precise, strategic targets. The heavy bomber chosen to perform this task was the B-17. The Flying Fortress.

Now MicroProse brings you the simulation of the legendary aircraft. Bristling with defensive armaments and a crew of ten, your B-17 will penetrate deep into Europe, flying in Group formation escorted by P-47 Thunderbolt single-seater fighters. Ploughing through lethal flak, taking on the might of the Luftwaffe, staying in bomb run formation to deliver ten 500lb bombs on target.

Fly 25 combat missions to historically accurate locations. Perform take offs and landings using highly detailed, fully functioning cockpit controls. As commander you must take responsibility for your crew. Assess their strengths and skills, and be ready to take over as bombardier, navigator, radio operator, engineer, co-pilot or gunner.

MicroProse B-17 Flying Fortress. It's a flying experience you'll never forget.

MICROPROSE
SIMULATION • SOFTWARE

B-17 Flying Fortress.

Released first on IBM PC Compatibles, followed by Commodore Amiga and Atari ST.

MicroProse Ltd. Unit 1 Hampton Road Industrial Estate,
Tetbury, Glos. GL8 8LD. UK. Tel: 0666 504 326.



Put your square block here, put your round block there, do the hokey cokey and turn around. Woa-oo the hokey cokey.....

Crazy Seasons

Idea Software/The Software Business ■ £25.99
Have you ever watched *Quantum Leap*? You know, where Sam Beckett's time-machine has gone bonkers, and he whizzes around in the fourth dimension putting things right, where they have previously gone wrong. Well *Crazy Seasons* is nothing like that.

Your time-machine has cacked up and sent boxes of 'time fluid' all over the simply drawn world. Your job, as a strange blue blob, is to bounce around the platforms putting the boxes back into alignment, while avoiding an abundance of nasties that will kill you with the slightest touch. Compared with recent platformers this is way behind the times, but fortunately very playable. Three years ago this would have been a great game, now it's an enjoyable diversion.

Clare Hodgson



Sarrat the Mage, who crossed the horse and the eagle to produce the pegasus, later crossed an orange and a duck to make...

Warriors of Releyne

Impressions ■ £29.99
Well, the Dharaks are rampaging and on the war path again. And it looks like it's another job for the Wind Riders of Releyne, and yet another average war-game to join the ever-increasing Amiga fraternity. *Warriors of Releyne* is packed to bursting with those dreaded hexes, and it also features a combat system based on rolling dice, which has some extremely silly effects; such as both the attacker and defender getting killed or the defender being turned into a hobbit.

In fact it's stunningly uninspired in virtually every department - although, with a lovely touch of irony, the graphics are actually rather nice. The game suffers from a clumsy control system, whereby you have to manually scour the huge playing area for your own people by clicking on a compass, instead of scrolling around the map itself.

However on the plus side, *Warriors* comes with a free construction kit, allowing you to knock up scenarios that, um, look exactly like the three that come with the game anyway. An eminently forgettable affair.

John Pillar



What is this huge floating thing blocking out the sun? Is it a plane, is it a bird, is it superman? No it's an incredibly large piece of parchment with some incredibly large writing on it.

Big blond blokes singing about Spam? Well not really. It's actually a historical strategy game...

Fur coats, horned helmets, longships with shields down the side - that's what the word 'vikings' conjures up for most of us. But in this pseudo-historical strategy game you're on the side of the goodies. It's the baddies who have all the fun.

This American-produced game evades a few historical realities to place you as the leader of a warlike community in England around the 11th century. Up to six players can take part, which gives a choice of two scenarios. When playing against humans, each one of you is leader of a different kingdom. Each one must build his realm into a workable society; building castles and managing resources plus invading neighbouring lands to slaughter the population and plunder the wealth.

Thordar Skullsplitter

On your own, however, you can face up to five computer-controlled viking chiefs. These guys play differently though. Which means you have to be more constructive and less violent if you are to outwit them.

After a pretty HAM loading screen you set the type of game and number of players, then choose where your home castle is to be placed. Among the many options, all the regions of the

country can be occupied or switched off and there are five difficulty levels which range from easy to very tough. Most important, perhaps, you can set the target for the number of territories you have to occupy before you win.

The game display, in a full 64 colours, is just a map with icons on it and a few other bits on the left-hand side. It benefits from nicely drawn sprites and terrain, but don't hold your breath for the sound effects.

Nigel Bonecracker

The game is played in turns, and the first job is to make sure your people are fed. A scroll appears at the bottom of the screen with Food and Harvest written on it. You can then move the pointer around the map and over your territories to see how much food your country needs (or has if it has produced a surplus).

Next step is to look to your armies. You can create and add to them by buying more soldiers and equipment, then allocate them to individual task forces to go about the business of beating up your peace-loving neighbours.

Battle is a simple affair. The manual says you should have twice as many people as your opponents, so bully-boy tactics win the day. As battle wears on, you are updated on how



The sheep are in a state of panic! Wales is completely waterlogged and they're making a run for the sunny patch around Birmingham.



Seconds out, round one, DONG! The great battle commences. Lord Yan's team has eight men engaged so far, but none of them are married.

Exactly how many awards
will it take before
you own a copy of
Sid Meier's Civilization?



Phew, I thought that parchment would never go. I mean, not only is it so big that nobody else could fit in the land, but it didn't even bring any beer! And the mess it made in the bathroom...

Vikings

many men each side are losing, so if your guys are being whipped, you can always pull out.

Once your invasion attempt has succeeded or failed, it's on to the next king's turn to try to take over some land. As the game progresses, other factors come into play: you may need to create a port with a small convoy of ships to take your armies abroad, for example, and you'll need to look for and mine ore to keep up your weapon supply.

Roger Todgerthumper

Different types of troops and technologies are important. To storm castles you need catapults to weaken the walls, but the defending castle can shoot at the catapults with their archers.

You will also need to build castles to defend your land, but you first have to clear the land then build a tower, followed by a keep, then a small castle and finally a large castle. Each piece of land can only produce so many soldiers - only large castles and the home castle can produce armies.

Castles also influence your troop's performance when fighting and their presence in a

territory increases the taxes coming from that area. And, of course, as well as money from the taxes, all of these things need raw materials, so someone has to go and look for them.

There is hardly any way of getting raw materials except for going into a territory with mountains, trees or other things. To get money you have to get miners to look for gold, silver and iron mines and this costs money as well.

Vikings is a reasonably intelligent strategy game, but a few more active additions, like the ability to control the action in battles and new weapons every few years, would improve its accessibility. There's simply not enough variation in the pattern of events and in the factors that govern success or failure. You can't help feel it would have benefited from a more detailed, historical feel or from a more fun, arcadey, *Defender of the Crown*-like approach. As it is, it's mediocre.

Yan Holland

Lord Van of Rokland				Peasant Resistance			
Spary	Die	Wounded	Remain	Spary	Die	Wounded	Remain
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
1	0	0	1	0	0	0	0
14	0	0	14	2	2	0	0

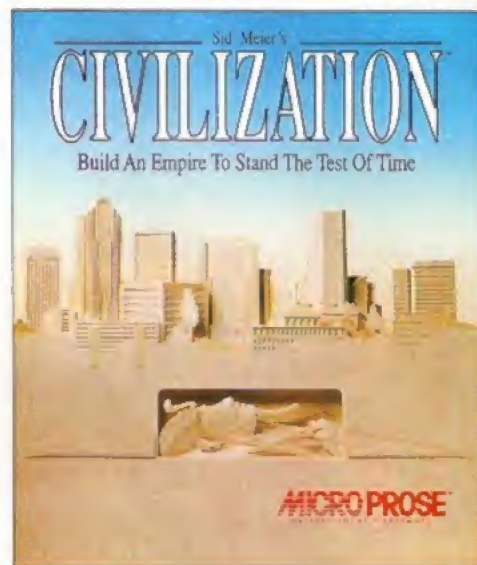
DUNDEAS VICTORIOUS!
 The Peasant Resistance is defeated, Rogaland is added to the kingdom of Rokland.

Rogaland is no use to anyone anyway. Nothing but four goats, a pile of dung and two peasants (and both of those are dead).

Vikings
Krisalis ■ £25.99

- Attractive 64-colour graphics but no in-game sound effects.
- Will get very tedious after you have played all the levels.
- There are plenty of options, but no new features as time progresses.
- Save and load option, plus up to six players can play at a time.

AMIGA (Verdict) **62%**



Winner!

Best Consumer Product 1991

Winner!

Best Strategy Program 1991

Winner!

Best Entertainment Program 1991

Winner!

Most Original Game 1992

Civilization

is now available for your
Commodore Amiga.

Also available for IBM PC Compatibles



MicroProse Ltd. Unit 1 Hampton Road Industrial Estate Tetbury Glos.
 GL8 8LD. Tel 0666 504 326.

COMPETITION TIME

Commodore
AMIGA

1500

1084s STEREO MONITOR

WIN WIN WIN



C A L L N O W

0891 800 406

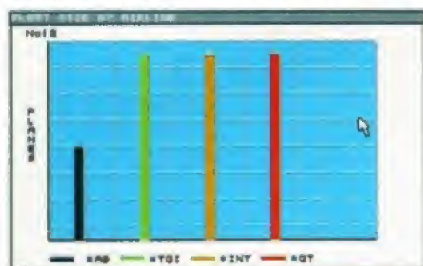
**JUST DIAL THE ABOVE NUMBER
THE MORE TIMES YOU CALL THE BETTER
THE CHANCE OF WINNING!**

CALLS CHARGED AT 36p PER MIN CHEAP, OR 40p PER MIN PEAK.
PLEASE ASK PERMISSION OF TELEPHONE OWNER BEFORE CALLING
COMPUTAWORLD LTD FY1 3PS



Air Bucks' main game screen shows various elements, from routes to the amount of dosh you have made or that you owe the bank. Yes, it's all incredibly informative, but it won't knock your monitor into tomorrow with its graphical wonders.

Early in the game there is little of the world to see, but very important jobs to do. This screen enables you to pick up the tasks that, later in the game, will make life much more profitable.



Woah! Interesting graph city with excellent coloured bars to show how you and the competition are getting on money-wise. This is the stuff young cash-cruisers' lives are made for.

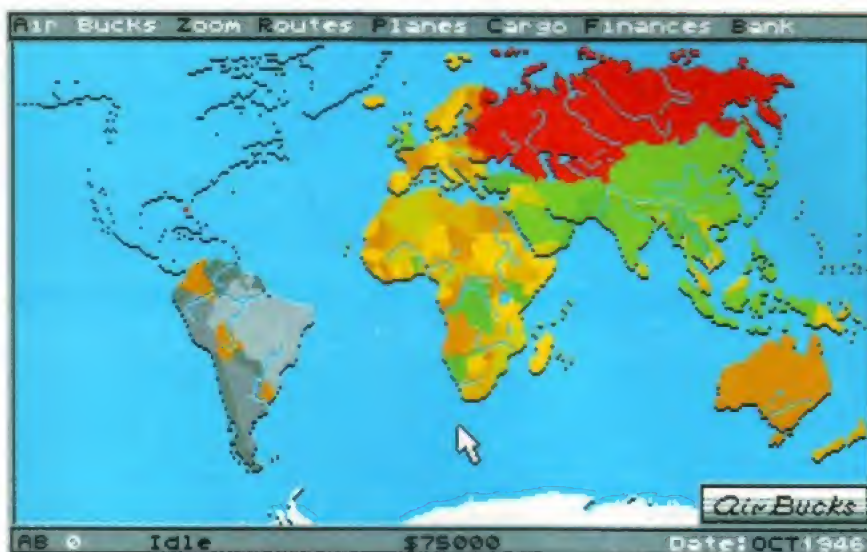
Wow! It's great, you play the role of Gringile the Gnome as he spends a few hours taking out alien hordes with his magical, mithral razor and V-11 WolfBat cruiser... Well, not quite. In fact not at all. *Air Bucks* is a game that requires more thought than your average role-payer and more strategic planning than a war-game.

Yes, you get to play Sir Freddie Laker — for those of you too young to recall the heady days of this heroic, bald entrepreneur, just think of him as a hip version of Richard Branson — while you attempt to set up a successful airline business.

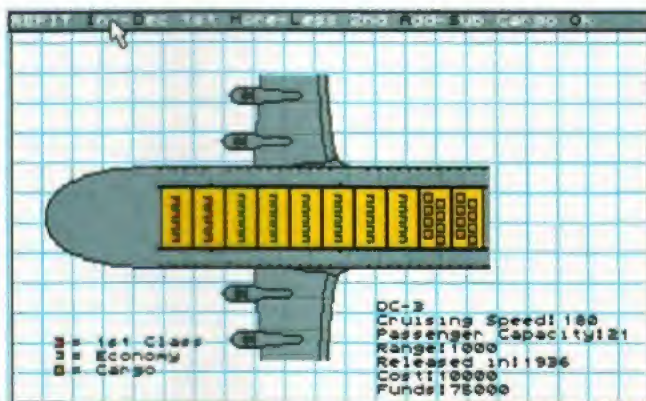
You start the game with a knackered old Dakota DC-3 plane and a measly \$100,000 (I'm not sure what that is in real money) and the situation is complicated by the fact that the year is 1946. The year, you would assume, would work in your favour, what with there being thousands of unemployed USAF pilots looking for things to do. Oh yes, by the way, you start the game in the United States.

Waiting to do the business

You can play with up to four players and there are different levels of difficulty set for each one. I can only imagine what it would be like to play against real-life human beings — no-one else wanted to play, so I was stuck with three computer opponents all of whom seemed



Air Bucks



Your first plane. Yes it's a knackered, old Dakota DC-3, and appears to have no roof. In this screen you can get to fit your aircraft out with lots of stuff to entice new passengers.

A bit of the world is your money-making oyster, now all you have to do is work out exactly which bit. The info boxes at the bottom just sit there uninterestingly.

to have a much better idea of world domination via commercial airlines than I did.

Air Bucks has a great deal of processing to do, so there is also a great deal of waiting around while the statistics resulting from each player's decisions are calculated. This could have been done with style (and the occasional animated graphic of a hideous nose-dived plane are forced to eat each other before moving on to the airline dinners) but nope. What you get is a screen with the standard map of the world in front of you, and the incredibly dull background music blaring out in tiny synthesiser style. Once all the calculations are made, the date changes and it's time for you to move on to another endeavour. Could do better.

But the point of this game is definitely not the graphics, which are average, or the music, which is a bunch of notes slung together so they don't sound too nasty. The meat of *Air Bucks* lies in the planning, the thought and the sheer commercial instinct that you are prepared to expend on it.

Traveller's checks

You are in charge of every aspect of the business, from the routes you decide to bid for, down to the level of luxury the passengers will put up with, while still paying the exorbitant fees that you will inevitably want to charge for

a trip from Tuscaloosa to Tuscon. You have to oversee the fitting and re-fitting of your aircraft, make the decision as to when to sell the DC-3 in order to buy a newer, bigger and more profitable aircraft — damn, you have to do everything. There is no delegation in 1940s business or so it seems.

All this calls for a level head and a total lack of emotion. The biggest, and potentially most profitable or harmful decisions are whether or not to approach the bank for a loan, or to flog off some shares. The latter also means keeping the shareholders happy. But sooner or later you're going to have to approach someone for some money. This really is the critical stage.

Basically, *Air Bucks* is a game that will have plenty of appeal to those people who enjoy fiddling with profit and loss ledgers, who adore stomping on other people's chances of success, who go all wet and squidgy over the idea of flying as a way to buy a Beverly Hills mansion, who ooze over good gameplay, but don't really give a monkey's oxygen mask for great sound or graphics. A good addition to Amiga's armoury of game genres.

Tim Smith

Air Bucks Impressions ■ £29.99

- Great idea, well-executed.
- Attention to business detail is admirable.
- Plenty of scope, the world changes each time you play.
- The boring sound and graphics don't help the game at all.
- The statistics take too long to process.
- No decent crash scenes.



72%



THE ALL NEW AMIGA 600 PACK ONLY

£349.95

Exclusive to Futureworld

- ★ On-site maintenance
 - ★ Kickstart/Workbench 2.05
 - ★ Built-in TV/Modulator
 - ★ Smart Card Slot
 - ★ IDE Hard Disk Controller.
 - (Optional 20Mb internal hard disk)
- A600 HD Pack:** As above but featuring 20Mb Hard Disk

A600 Pack
A600 (inc DPaint III & game)
Astra Ten Games Pack
GFA Basic

RRP £399.99
RRP £229.78
RRP £49.95
TOTAL RRP £679.72

But yours for an unbelievable
TOTAL RRP £779.72
But yours for an unbelievable

£499.99

NB: HD VERSION DOES NOT INCLUDE DPIII OR GAME

ALL OUR A500 PLUSES COME WITH A MASSIVE 2 MEG OF RAM

AMIGA 1.3 MEGAPACK - Stocks VERY limited -

AMIGA 1.3 VERSION COMPUTER
Only version guaranteed to run all Amiga software

RRP £349.95

1 MEG UPGRADE BOARD
Increases your A500 to a massive 1 Megabyte of RAM

RRP £29.95

WICKED 50 GAMES PACK
50 great games to get you going!

RRP £24.95

FIGHTER MICROSWITCH JOYSTICK
Essential to play your 50 games

RRP £7.99

QUALITY MOUSEPAD

RRP £6.99

TAILOR MADE DUSTCOVER

RRP £6.99

16 NIGHTS HOLIDAY ACCOMMODATION
• PLUS • PD DISK PACK CONTAINING

Wordprocessor, Spreadsheet, Database, Virus Killer, Backup Utility

TOTAL RRP £426.82
But yours for an unbelievable

£299.95

GAMESMASTER PACK

A500+ CARTOON CLASSICS PACK

Complete with Bart Simpson • Captain Planet • Lemmings • D Paint III

RRP £399.95

2 MEG RAM BOARD (latest blue pcb design)

Increases your A500+ to a massive 2 megabytes of RAM

RRP £59.95

ASTRA TEN GAMES PACK

Datascram • Dungeon Quest • E Motion • Grand Master Slam • Kid Gloves
Powerplay • RVF Honda • Shufflepack Café • Soccer • Tower of Babel
(NB All games individually packaged)

RRP £229.78

WICKED 40 GAME PACK

40 great games to get you going!

RRP £24.95

2 FIGHTER MICROSWITCH JOYSTICKS

Not one but two quality joysticks

RRP 15.98

QUALITY MOUSEPAD

RRP £6.99

TAILOR MADE DUSTCOVER

RRP £6.99

• PLUS • PD DISK PACK CONTAINING

Wordprocessor • Spreadsheet • Database • Virus Killer • Backup Utility

TOTAL RRP £744.59

But yours for an unbelievable...

£399.99

PROFESSIONAL MUSIC PACK

A500+ CARTOON CLASSICS PACK

Complete with Bart Simpson • Captain Planet • Lemmings • D Paint III

2 MEG RAM BOARD (latest blue pcb design)

Increases your A500+ to a massive 2 megabytes of RAM

RRP £399.95

MUSIC X 1.1 (latest version)

Renowned as the best professional package on the market

RRP £59.95

QUALITY MIDI INTERFACE

Now you can hook up to any midi keyboard

RRP £149.95

2 x MIDI CABLES

Not one but two quality cables

RRP £34.95

QUALITY MOUSEPAD

RRP £13.98

TAILOR MADE DUSTCOVER

RRP £6.99

• PLUS • PD DISK PACK CONTAINING

Wordprocessor • Spreadsheet • Database • Virus Killer • Backup Utility

TOTAL RRP £672.76

But yours for an unbelievable...

£399.99

AMIGA CDTV SPECIAL OFFER

Save £200 and trade in your Amiga A500 for Commodore's latest Multimedia pack:

(Normal RRP £599.99):

- CDTV Player
- Keyboard
- Floppy Disk Drive
- Mouse

+ Free GFA Basic (£79.99)

£399.99

OFFER RUNS UNTIL THE END OF SEPTEMBER. CALL NOW FOR DETAILS

AMIGA 1500 CARTOON CLASSICS SUPERPACK

NEW AMIGA 1500 featuring Workbench/Kickstart 2, The Works, D Paint III, Home acts etc RRP £699.95

ASTRA TEN GAME PACK 10 individually packed games (see A500 Gamesmaster pack for details) RRP £229

GFA BASIC Essential for basic programming RRP £49.99

CARTOON CLASSICS SOFTWARE

Bart Simpson Vs Space Mutants • Lemmings*

Captain Planet RRP £79.97

2 FIGHTER JOYSTICKS RRP £15.98

QUALITY MOUSEPAD RRP £6.99

TOTAL RRP £1082.62

But yours for an unbelievable

£599.95

NB: This machine requires a TV/Modulator (£24.95) if it is to be used with a television

MEMORY DRIVES & SCANNERS

MEMORY	DRIVES	HARD DRIVES	SCANNERS
512K RAM EXPANSION WITHOUT CLOCK	£19.95	WITH CLOCK	£24.95
1.5 MEG EXPANSION (Not Plus compatible)			£79.95
1 MEG EXPANSION (Gives your A500 plus a massive 2MB)			£39.95
1 MEG EXPANSION WITH THRU-PORT			£49.95
NEW 8 MEG RAM BOARDS FROM POWER Complete with Thru-Port Populated board			
with 0Meg RAM	£99	2 Meg RAM	£129
4 Meg RAM	£189.95	8 Meg RAM	£299.95
DIRECT A500 REPLACEMENT DRIVE with instructions			£44.95
POWER PC880E Robust slim drive with anti-click			£49.95
CUMANA CAX 354 SLIMLINE DRIVE			£54.95
POWER PC 880B with Blitz/Virus hardware			£69.95
POWER PC880B+ X-COPY PROFESSIONAL			£99.95
DUAL POWER PC880B complete with Power supply			£124.95
GVP 52 MEG HARD DRIVE WITH RAM EXPANDABLE TO 8MB			
0 Meg RAM	£379.95	2 Meg RAM	£429.95
4 Meg RAM	£499.95	8 Meg RAM	£679.95
GVP 105 MEG HARD DRIVE WITH RAM EXPANDABLE TO 8MB			
0 Meg RAM	£579.95	2 Meg RAM	£629.95
4 Meg RAM	£729.95	8 Meg RAM	£899.95
POWER SCANNER WITH VERSION 2.0 SOFTWARE			£99.95
UPGRADE KIT FOR NON POWER SCANNER UNITS			
Complete with hardware interface and new version 2.0 Software			£49.95

MONITORS / TVs

All our monitors/TVs come with the following value pack worth over £90 COMPLETELY FREE!
Value pack comprises:-

GFA BASIC
The most comprehensive programming language

RRP £49.95

10 DS/DD DISKS

RRP £9.99

10 CAPACITY STORAGE BOX

RRP £4.99

SCART LEAD TO YOUR COMPUTER

RRP £9.99

GOLDSTAR 14" TV/MONITOR

Complete with remote control and sleep timer

Incredible value for money

TOTAL RRP WITH VALUE PACK £325.79

PHILLIPS 3332 15" FST TV/MONITOR

High quality FST TV/Monitor with dedicated monitor output

infra red remote controlling a host of features

Complete with 2 year guarantee

TOTAL RRP WITH VALUE PACK £330.75

PHILLIPS 8833/II STEREO COLOUR MONITOR

Simply the most popular monitor on the market

FREE F19 Stealth Fighter

*12 month on-site service warranty

TOTAL RRP WITH VALUE PACK £390.75

PHILLIPS 2331 15" FST TV/MONITOR

Same specification as 3332 but with Teletext

Full range 3 speaker sound output

Incredible value for money

TOTAL RRP WITH VALUE PACK £360.75

COMMODORE 1084S STEREO COLOUR MONITOR

Dedicated Commodore monitor

Colour co-ordinated to complement your Amiga

TOTAL RRP WITH VALUE PACK £390.75

★ EXTRA SPECIAL OFFER ★
WHILE STOCKS LAST

But yours for an unbelievable

£199.95

But yours for an unbelievable

£239.95

But yours for an unbelievable

£269.95

But yours for an unbelievable

£269.95

£239.95

Future World
computers

ALL PRICES INCLUDE VAT & COURIER DELIVERY

STAR PRINTERS

All our Star Printers now come with the following value pack worth £34.96 COMPLETELY FREE.

- QUALITY COMPUTER CABLE RRP £9.99
- UNIVERSAL PRINTER STAND RRP £9.99
- 200 SHEETS CONTINUOUS PAPER RRP £4.99
- TAILOR MADE DUST COVER RRP £9.99
- 16 NIGHTS HOLIDAY ACCOMMODATION
- PLUS PD DISK PACK CONTAINING

Wordprocessor • Spreadsheet • Database • Virus Killer • Backup Utility

STAR LC20 MONO PRINTER

9 Pin Dot Matrix 180/45 cps
TOTAL RRP with value pack £268.01

But yours for an unbelievable **£149.95**

STAR LC200 COLOUR PRINTER

9 Pin colour 185/45 cps
TOTAL RRP with value pack £339.95

But yours for an unbelievable **£209.95**

STAR LC24-200 MONO PRINTER

24 Pin mono printer 220/55cps
TOTAL RRP with value pack £386.29

But yours for an unbelievable **£249.95**

STAR LC24-200 COLOUR PRINTER

24 Pin colour printer 220/55cps
TOTAL RRP with value pack £445.04

But yours for an unbelievable **£299.95**

STAR SJ48 INKJET PRINTER

High speed/quality mono printer. 100cps (LQ)
TOTAL RRP with value pack £379.96

But yours for an unbelievable **£244.95**

SERIOUS SOFTWARE

WORD PROCESSORS

- QUICKWRITE basic but efficient and easy to use £59.99
- PENPAL Ideal for both beginners & experienced users £79.99
- WORDWORTH Industry standard, the best! £129.99

DATABASE

- K-DATA Affordable, reliable & easy to use £51.99
- SUPERBASE PROFESSIONAL £249.95

The ultimate, you can't get better

SPREADSHEET

- K-SPREAD 2 Simple & easy to use £63.99
- K-SPREAD 3 Enhanced version of above £81.99
- MAXIPLAN Well known powerful spreadsheet £69.99
- ADVANTAGE Powerful package for business users £99.99

UTILITIES

- PERSONAL FINANCE MANAGER Get your finances in order! £39.99
- HOME ACCOUNTS 2 Suitable for home & small businesses £54.99
- DEVPAK 3 Extremely powerful assembler £69.99

GRAPHICS

- AMOS THE CREATOR Become a budding gamesmaker £49.99
- WALT DISNEY ANIMATION STUDIO every cartoonists dream £99.99

MUSIC

- MUSIC X I.I Special purchase whilst stocks last £49.99
- BARS & PIPES Top of the range for the professional £148.99

ORDERING MADE EASY



BY PHONE

Simply call our Head Office quoting your Access/Visa number on **0234 218060 (5 lines)**



BY CALLING PERSONALLY

Simply call in to your nearest FutureWorld store where our fully trained personnel will be more than happy to deal with your requirements.



BY POST

Make cheques, Building Society drafts or Postal Orders payable to **FUTUREWORLD COMPUTERS LTD**
UNITS 25-27 SERGEANTS WAY
ELMS INDUSTRIAL ESTATE BEDFORD MK41 0EH

Please write cheque guarantee card number on the reverse of cheque to ensure same day clearance. Cheques without a card number subject to 10 days clearance.

REMEMBER ALL PRICES ARE INCLUSIVE OF VAT & COURIER DELIVERY (UK Mainland only) SATURDAY DELIVERY £10.00.

FINANCE

Finance available to suit your specific needs. Written details on request
Instant credit is available in all FutureWorld stores

PREMIER GOLD CARD

- 7 day money back guarantee on goods purchased if not completely satisfied (subject to goods being returned in mint condition)
- 30 day exchange for new policy should a fault occur
- 1 year guarantee giving free collection and delivery service should a fault occur
- Exclusive Premier Gold Card with Personal Membership Number entitling you to special offers
- All this for only £19.95 per item purchased

1 YEAR GUARANTEE

For the whole guarantee period, warranty service will be completely free of charge

TECHNICAL SUPPORT/ON SITE ENGINEERS

Being authorised service centres for AMSTRAD, COMMODORE & STAR, we are equipped to deal with the majority of queries. Lines open 3.00pm to 5.30pm

FULLY COMPUTERISED ORDERING SYSTEM

This enables our telesales staff to provide up-to-the-minute stock information coupled with efficient dispatch

FULL TESTING PROCEDURE

All computer hardware is tested prior to dispatch maintaining our motto;

Simply the BEST

All goods subject to availability
All prices correct at time of going to press

E & OE

SUPER ABC PERIPHERAL PACKS

PACK B

- 1/2 MEG UPGRADE BOARD RRP £29.95
- 2 FIGHTER JOYSTICKS RRP £15.98
- 40 CAPACITY LOCKABLE DISK BOX RRP £9.99
- 10 DS/DD 3.5" DISKS RRP £9.99
- TOTAL RRP £65.91
- SUPER VALUE PACK PRICE £34.95**

PACK A

- QUALITY REPLACEMENT MOUSE RRP £19.99
- SOLID PERSPEX DUST COVER RRP £12.99
- QUALITY SEMI-SOFT MOUSEMAT RRP £7.99
- TOTAL RRP £40.97
- SUPER VALUE PACK PRICE £24.95**

PACK C

- 1 MEG EXPANSION BOARD RRP £59.95
- 40 CAPACITY LOCKABLE DISK BOX RRP £9.99
- 10 DS/DD 3.5" DISKS RRP £9.99
- 3.5" DISK DRIVE CLEANING KIT RRP £7.99
- TOTAL RRP £87.92
- SUPER VALUE PACK PRICE £44.95**

PROFESSIONAL AMIGA REPAIRS

"Simply The Best" Commodore authorised repair centre

FREE COLLECTION & DELIVERY BY COURIER Make one simple phone call and leave the rest to us!
GUARANTEED 7 DAY TURN AROUND We guarantee to return your computer

WITHIN 7 days of collection

FULL OVERHAUL INCLUDING OVER 50 DIAGNOSTIC CHECKS Your Amiga will look as good as new

3 MONTH COMPREHENSIVE GUARANTEE Our engineers work to the highest standard

ALL INCLUSIVE PRICE We won't con you with hidden extras

FREE 50 GAMES SOFTWARE PACK

For a limited offer we will give you a 50 games pack completely free!

ALL FOR THE **£59.95**
INCREDIBLE PRICE OF

NB Personal callers in to one of our stores may deduct £10 from the above price.

We reserve the right to refuse computers that have been tampered with or are beyond economical repair. In this instance a nominal £10 charge will be made to cover carriage costs.

EXTEND YOUR WARRANTY TO A TOTAL OF 1 YEAR FOR ONLY AN ADDITIONAL £20.00



YOUR NEAREST FutureWorld STORE

BASILDON MEGASTORE - GRAND OPENING SAT 8th Aug
12/13 South Walk Basildon Telephone 0268 270013

BEDFORD MEGASTORE
1 The Howard Centre Bedford Telephone 0234 212460

NORTHAMPTON
1-7 College Street Northampton Telephone 0604 33996

WELWYN GARDEN CITY
16 Church Road Welwyn Gdn City Telephone 0707 390029

WATCH THIS SPACE
More stores opening soon!

Dominoes abound in Ocean's latest platform puzzler. But does it live up to the hype? Follow GI Ant on the trail of Colin Curly's fave cheesy snacks.

Once there was a little old ant, Thought he'd move a rubber tree plant, Anyone knows an ant can't, Move a rubber tree plant. But he had high hopes, Yes he had high hopes, High in the sky, apple pie hopes...

The aim of the game is to arrange the dominoes, so that when GI Ant pushes one block, the rest will follow, with the trigger domino (the one with three red stripes) falling last.



Push-Over



Colin's little soldier ant friend, who has volunteered to brave the depths of the hill to find his mate's crisps (smacks a bit of product placement doesn't it?).



GI Ant, without even a tiny glimmer of fear, dives straight into the opening, ready to risk life and limb for his pal. Little did either of them know of the parallel universe that existed right beneath their feet, Domino Domain. And what does he find down there? Dominoes, that's what, hundreds upon hundreds of the little yellow blocks.

So any time you're getting low

As anyone who's seen the Guinness Book of Records will remember, the Japanese have a fetish for setting up dominoes in wild and wacky ways. Teams spend months designing

YOUR GUIDE TO 'BREAKING THE WORLD DOMINOES RECORD, WHILE DRINKING A PINT OF GUINNESS'

Still not got the picture? Well here's a run through of one of the levels with bridgers, tumblers and ascenders to boot.



So let's start from the very beginning, it's a very good place to start. But which blocks to move where?



The first thing is to move the normal plain yellow block out of harm's way. We'll come back to it later.



Next place the ascender (with one red vertical stripe) right next to the three-striped trigger domino.



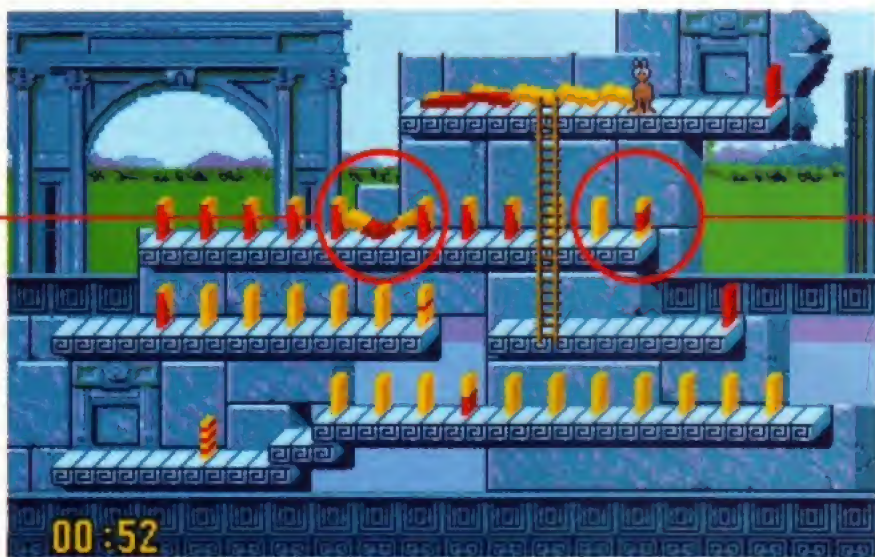
Put the normal domino in position behind the Vanisher (two horizontal stripes) and push.



Stand watching while the ascender starts the tumbler rolling off the platform to hit the stopper below.



The tumbler turns and knocks the bridger (one horizontal stripe), then finally we're home.



You've only got one push per screen, so make sure you use it well. But if you cock up a screen you can try, try and try again, from the beginning, as many times as you like.



A Splitter domino splits into two when hit by a falling block - bloomin' useful when there's a block on either side of it.



A Tumbler will defy the laws of momentum and keep on tumbling until it is stopped by a fallen block or turned around by a red stopper.

and setting up their thousands of coloured dominoes, so that when one gets pushed over, all the others fall and make pretty patterns on the floor. Well worth it... not! However this sparked off a passion for such things that culminated in the creation of the most obscure toy in history, Domino Rally (ask your dad if you can't remember it).

The basic aim in *Push-Over* is to set up your blocks in a certain way, so that when you make your one-and-only push, all the dominoes will topple. The trigger block, distinctively patterned with three red stripes, should fall last. If all dominoes were alike, it would be a dull world to live in and, guess what, they're not. The yellow blocks are differentiated by red stripes and diagonals, each pattern representing different attributes, including tumblers, which seem to have mastered the art of perpetual motion, ascenders, which appear to have never heard of the law of gravity, and exploders that, well... explode.

Instead of letting go

Those who like their games to do more than make pretty noises when you kill big blue aliens will love *Push-Over*. It introduces you gradually to the ideas behind the gameplay, then slowly builds up to levels that could push the self-destruct button in your brain. The whole aim is to collect the ten packets of cheesy-flavoured snacks that Colin lost, which you get every 10 screens or so. But, to tell the truth, when you get further into the game, merely completing a level (Quavers or no Quavers) is reward enough.

Push-Over comes on two disks, not that the game is so complex it needs the space, but because an amusing intro sequence takes up most of the space on the first floppy. Admittedly, the animation and bluesy sound track would take pride of place in the demo section of *Amiga Format*, but when you've seen it, you've seen it, and it's pretty unlikely

that you'll want to sit through it again. Unfortunately, you can't skip the intro. That's understandable when you consider the sponsorship deal but it's still a little frustrating when all you want to do is solve the puzzles.

Just remember that ant

It is tempting to put *Push-Over* in the same bracket as the classic *Lemmings*. Both need careful planning ahead and split-second timing to master. One of the more noticeable differences is, of course, that dominoes don't move along with cute bouncing blue hair. *Push-Over* is a puzzle game unlike any we've ever seen before, original ideas and a lot of elbow grease have gone into making an addictive product.

We thoroughly enjoyed putting *Push-Over* through its paces and won't be shoving it to the back burners until we've eaten our way through thousands of packets of those very curly Quavers. Although we may turn the sound down after a while.

Whoops there goes another rubber tree plant...

Clare Hodgson with a little help from **Sammy Cahn** and **Jimmy van Heusen**

Push-Over Ocean ■ £25.99

- Despite the hype, this is still a damn good puzzle game.
- 100 levels of lemmingsy conundrums for your entertainment.
- Cute graphics and a user-friendly level code input system.
- The gameplay may get a little bit repetitive after a while.

Verdict 86%



Teeing off on the first at the Bountiful golf course in the Rocky Mountains ... pity about the weather though.

Links Bountiful

US Gold ■ £17.99

Hard drive only ■ Requires original Links program

This is the first in a series of planned *Links* add-on disks, and it's an excellent starter if you're thinking of building a collection. There are many good views, right from the first hole which shows the rolling fairways, bordered by a road with a white picket fence. The backgrounds depict the Wasatch mountains (part of the Rockies) on a slightly overcast day.

A neat feature of all the *Links* add-ons is the upgrade included for the original *Links* game system: now it does its screen redraws secretly, saving time. On-screen messages in the corner tell you the redraw is occurring. There's also an improved wind indicator which is easier to read. The whole lot is dead easy to install and upgrade: it's all automated and virtually idiot-proof.

The *Bountiful* course is fairly difficult, but supplied in the packaging is an original Bountiful scorecard, showing the layouts of each hole in detail. This comes in useful when you're dealing with *Bountiful's* trickier holes.

Nell Jackson

Verdict 88%



A beautiful day for a round of golf at the Firestone county club in Ohio - it's easier but just as interesting as the Bountiful links.

Links Firestone

US Gold ■ £17.99

Hard drive only ■ Requires original Links program

The *Firestone* add-on course is set at the Firestone Country Club, in Akron, Ohio. Filmed on a beautiful clear day in the autumn, *Firestone* looks as gorgeous as it plays. The trees are all resplendent in their golden brown autumn colours, providing a wealth of stunning displays.

Firestone is slightly easier to play than *Bountiful* - most of the greens are visible from the tees but that doesn't make it any the less interesting - it'll take a while to master, just like the real thing. The third hole is a tight right-hand dog-leg (and the pin is totally obscured by trees), and there's a nasty stream running right across the fairway just short of the hole. If you haven't heard *Links'* 'wet plop' sound effects yet, this is where you'll most likely catch it.

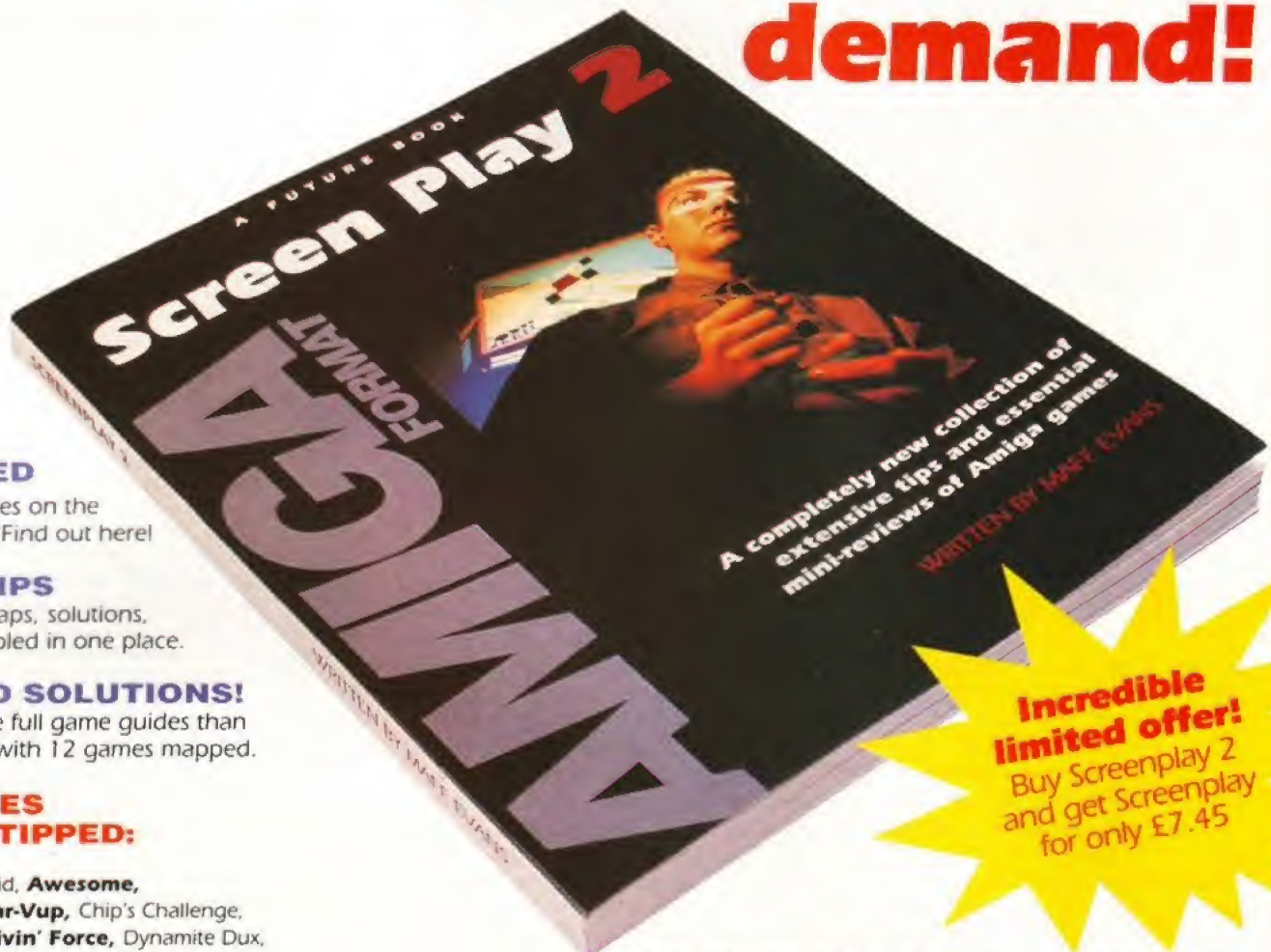
As with *Bountiful*, *Firestone* includes an upgrade to the original *Links* program. Also included is a scoresheet from the *Firestone* course - with all the holes displayed very clearly. If you already own *Links*, *Firestone* is an excellent choice if you're looking for impressive visuals.

Nell Jackson

Verdict 89%



The ultimate games guide is back by popular demand!



OVER 100 GAMES REVIEWED

Want to know the top games on the Amiga, both new and old? Find out here!

180 PAGES OF TIPS

The biggest collection of maps, solutions, cheats and tips ever assembled in one place.

MORE MAPS AND SOLUTIONS!

Screen Play 2 features more full game guides than any book ever has before, with 12 games mapped.

ALL THESE GAMES REVIEWED AND TIPPED:

Archipelagos, Atomic Robokid, **Awesome**, Back to the Future II and III, **Car-Vup**, Chip's Challenge, **Chuck Rock**, Crackdown, **Drivin' Force**, Dynamite Dux, **E-Motion**, Empire Strikes Back, **ESWAT**, Ghostbusters 2, **Ghosts 'n' Goblins**, Gremlins 2, **Hammerfist**, Horror Zombies, **The Immortal**, Ivanhoe, **Kid Gloves**, Killing Game Show, **LED Storm**, Line of Fire, **Llmatron**, Lotus Esprit Turbo Challenge, **Manic Miner**, Midnight Resistance, **Monty Python's Flying Circus**, Narc, **Ninja Spirit**, Nitro, **Operation Thunderbolt**, Predator 2, **Robocop 2**, Saint Dragon, **SCI**, Shadow Warriors, **Skidz**, Spherical, **Spy Who Loved Me**, SWIV, **Teenage Mutant Hero Turtles**, Toki, **Turrican**, Turrican 2, **Virus**, Viz, **Z-Out**.

PLUS FULL SOLUTIONS FOR:

Cruise for a Corpse, Dragons Lair II, **Fantasy World Dizzy**, Indiana Jones III, **Leisure Suit Larry**, Maniac Mansion, **Rick Dangerous 2**, Rise of the Dragon, **Search for the King**, Secret of Monkey Island, **Time Machine**, Treasure Island Dizzy, **Wonderland**

AND ALSO EXTENSIVE PLAYERS' GUIDES FOR:

Armour-Geddon, **Battle Command**, Captive, **Carrier Command**, Deuterios, **Dragons Breath**, Eye of the Beholder, **Full Contact**, Gods, **Hero Quest**, Indianapolis 500, **James Pond**, Lemmings, **Mean Streets**, Pang, **Prince of Persia**, Speedball 2, **Spindizzy Worlds**, Supercars 2, **Warhead**



Costing only £9.95 The ultimate guide to Amiga games has been succeeded by an heir. **Maff Evans** has spent months putting together a brand new collection of top tips, helpful hints and informative reviews.

ORDER FORM

I would like to order ____ copy/copies of SCREENPLAY 2 at the price of **£9.95 (+1.45 per copy P&P)**
I would like to order ____ copy/copies of or SPECIAL LIMITED PERIOD OFFER both SCREENPLAY1 and SCREENPLAY 2 at the price of **£17.40 (+1.45 per copy P&P)**
Please send payment with this order form in a sealed envelope to:

AMIGA FORMAT SCREENPLAY 2 Book
FREEPOST
Future Publishing Ltd
Somerton, Somerset TA11 7BR

No stamp required if posted in the U.K.
Please allow 28 days for delivery.

Name _____
Address _____
Post Code _____
Telephone _____
I enclose cheque/PO for £ _____
Please debit my Access/Visa card; (delete as appropriate)
My card no. is _____
Expiry date _____
Signature _____
OR Phone our credit card hotline 0458 74011

CITIZEN

DOT MATRIX INK JET AND NOTEBOOK PRINTERS

ALWAYS A GOOD IDEA

Silica presents some great offers on the award winning range of high quality matrix printers from Citizen. Each Citizen printer is built in the UK to exacting standards, ensuring superb reliability and output. Our confidence in Citizen's quality is such that we are pleased to include a 2 year guarantee with every printer. Plus, if you buy a Citizen printer (not inkjet) from us, we will give you the Silica Printer Starter Kit (worth £29.38), **FREE OF CHARGE!**

FREE DELIVERY

Next Day - Anywhere in the UK mainland

FREE STARTER KIT

Worth £29.38 - With every Citizen printer (excluding inkjet) from Silica

2 YEAR WARRANTY

Silica offer a 2 year warranty (including the dot matrix printer head) with every Citizen printer.

WINDOWS 3.0

Free Windows 3.0 driver included with the Silica Starter Kit

FREE COLOUR KIT

With every Prod 9, Swift 9 & 24e and 224

FREE HELPLINE

Technical support helpline open during office hours

MADE IN THE UK

Citizen printers are manufactured to high standards

LOW PRICE 9 PIN PRINTER



144 CPS **80 COLUMN**

- Citizen 120D+ - 9 pin - 80 column
- 144cps Draft, 30cps NLO
- 4K Printer Buffer + 2 Fonts
- Parallel or Serial Interface
- Graphics Resolution: 240 x 240dpi
- Epson and IBM Emulation
- Pull tractor & bottom feed
- **FREE Silica Printer Starter Kit**

£115
+VAT= £135.13 ref. PRI 2120

RRP £199
SILICA STARTER KIT £25
TOTAL VALUE: £224
SAVING: £109
SILICA PRICE: £115

The Citizen 120D printer comes supplied with a parallel interface as standard. If you require a serial interface instead, please state ref. PRI 2125 when placing your order with Silica.

9 PIN PRINTERS



FREE COLOUR KIT

300 CPS **80 COLUMN**

- Citizen Prod 9 - 9 pin - 80 column
- 300cps Draft, 60cps NLO
- 8K Printer Buffer + 3 Fonts
- Parallel Interface
- Graphics Resolution: 240 x 240dpi
- Epson and IBM Emulation
- **FREE Colour Kit**
- **FREE Silica Printer Starter Kit**

RRP £189
COLOUR KIT £41
SILICA STARTER KIT £25
TOTAL VALUE: £255
SAVING: £66
SILICA PRICE: £189

£189
+VAT= £222.08 ref. PRI 2510



FREE COLOUR KIT

192 CPS **80 COLUMN**

- Citizen Swift 9 - 9 pin - 80 column
- 192cps Draft, 48cps NLO
- 8K Printer Buffer + 3 Fonts
- Parallel Interface
- Graphics Resolution: 240 x 240dpi
- Epson and IBM Emulation
- **FREE Colour Kit**
- **FREE Silica Printer Starter Kit**

RRP £229
COLOUR KIT £24
SILICA STARTER KIT £25
TOTAL VALUE: £302
SAVING: £113
SILICA PRICE: £189

£189
+VAT= £222.08 ref. PRI 2208



192 CPS **136 COLUMN**

- Citizen Swift 9x - 9 pin - 136 column
- 192cps Draft, 48cps NLO
- 8K Printer Buffer + 3 Fonts
- Parallel Interface
- Graphics Resolution: 240 x 240dpi
- Epson and IBM Emulation
- Colour Option Available
- **FREE Silica Printer Starter Kit**

RRP £329
SILICA STARTER KIT £25
TOTAL VALUE: £354
SAVING: £105
SILICA PRICE: £249

£249
+VAT= £292.58 ref. PRI 2208

24 PIN PRINTER



NEW! LIMITED OFFER

FREE COLOUR KIT

PRINTER + SOFTWARE + COLOUR

- Citizen Swift 24e - 24 pin - 80 column
- 216cps Draft, 72cps LQ
- 8K Printer Buffer + 6 Fonts
- Parallel Interface
- Graphics Resolution: 360 x 360dpi
- Epson, IBM & NEC P6 Emulation
- **FREE Colour Kit**
- **FREE Silica Printer Starter Kit**
- **FREE Lotus AMI 1.2 Word Processor and DTP package**
- **FREE Adobe Type Manager V1.15**

- RRP £369
- COLOUR KIT £24
- SILICA STARTER KIT £25
- LOTUS AMI 1.2 WORDP PACKAGE £95
- ADOBE TYPE MANAGER V1.15 (Font) £27
- TOTAL VALUE: £536
- SAVING: £177
- SILICA PRICE: £269

£269
+VAT= £324.98 ref. PRI 2544

Lotus + Adobe software is for PC only on 3 1/2" disk

24 PIN PRINTERS



FREE COLOUR KIT

192 CPS **80 COLUMN**

- Citizen 224 - 24 pin - 80 column
- 192cps Draft, 64cps LQ
- 8K Printer Buffer + 4 Fonts
- Parallel Interface
- Graphics Resolution: 360 x 360dpi
- Epson and IBM Emulation
- **FREE Colour Kit**
- **FREE Silica Printer Starter Kit**

RRP £299
COLOUR KIT £38
SILICA STARTER KIT £25
TOTAL VALUE: £362
SAVING: £133
SILICA PRICE: £199

£199
+VAT= £233.83 ref. PRI 2484



192 CPS **136 COLUMN**

- Citizen Swift 24x - 24 pin - 136 column
- 192cps Draft, 64cps NLO
- 8K Printer Buffer + 4 Fonts
- Parallel Interface
- Graphics Resolution: 360 x 360dpi
- Epson, IBM and NEC P6 Emulation
- Colour Option Available
- **FREE Silica Printer Starter Kit**

RRP £486
SILICA STARTER KIT £25
TOTAL VALUE: £511
SAVING: £162
SILICA PRICE: £349

£349
+VAT= £415.06 ref. PRI 2511

INKJET PRINTER



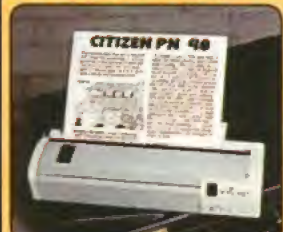
360 CPS **80 COLUMN**

- Citizen Proj 1 - inkjet - 80 column
- 360cps Draft, 120cps NLO
- 50 Nozzle Head - Whisper Quiet 47dB(A)
- 8K Printer Buffer + 3 Fonts
- Optional HP Compatible Font cards
- Parallel Interface
- Graphics Resolution: 300x300dpi
- HP Deskjet plus emulation

RRP £499
TOTAL VALUE: £499
SAVING: £137
SILICA PRICE: £359

£359
+VAT= £421.83 ref. PRI 2090

NOTEBOOK PRINTER



64 CPS **80 COLUMN**

- Citizen PN48 Notebook Printer
- Non-impact Printing on Plain Paper
- 53cps LQ - 4K Buffer + 2 Fonts
- Rear and Bottom Paper Loading
- Parallel Interface
- Graphics Resolution: 360 x 360dpi
- Epson, IBM, NEC P6 & Citizen Emulation
- Powered From Mains, Battery or Car Adaptor
- **FREE Silica Printer Starter Kit**

RRP £325
SILICA STARTER KIT £25
TOTAL VALUE: £350
SAVING: £101
SILICA PRICE: £249

£249
+VAT= £292.58 ref. PRI 2100

FREE! STARTER KIT

This starter kit will help you to get up and running with your new Citizen dot matrix or notebook printer from Silica Systems Plus, for a limited period only, we are including a Citizen Print Manager for the Amiga free of charge as part of the Silica Starter Kit, bringing the total value of the free kit up to £44.33

- 3 1/2" Disk - Amiga & ST Drivers
- 3 1/2" Disk - Driver for Windows 3
- 2 Mems Parallel Printer Cable
- 300 Sheets of Continuous Paper
- 100 Continuous Address Labels
- 5 Continuous Envelope
- Amiga Print Manager

ACCESSORIES

- SHEET FEEDERS**
 - PRF 1200 1200 £7.39
 - PRF 1215 1240/2145/45/60/90 £8.70
 - PRF 1220 1240/2145/45/60/90 £9.30
 - SERIAL INTERFACES**
 - PRF 1189 1200 £56.65
 - PRF 1200 1200/1240/2145 £21.25
 - PRF 1200 1200/1240/2145/45/60/90 £28.38
 - 32K MEMORY EXPN**
 - PRF 1200 1240/2145/45/60/90 £13.10
 - PRINTER STAND**
 - PRF 1200 1240/2145/45/60/90 £24.30
 - PRF 1200 1240/2145/45/60/90 £28.80
 - ORIGINAL RIBBONS**
 - PRF 3020 1200/1240/2145 £2.81
 - PRF 3040 1240/2145/45/60/90 £7.15
 - PRF 3050 1240/2145/45/60/90 £4.90
 - PRF 3060 2145/45/60/90/45/60/90 £15.63
 - PRF 3040 1240/2145/45/60/90 £3.81
 - PRF 3040 1240/2145/45/60/90 £3.81
 - COLOUR KITS**
 - PRF 1200 1240/2145/45/60/90 £25.35
 - PRF 1200 1240/2145/45/60/90 £25.35
 - PN48 ACCESSORIES**
 - PRF 1148 PN48 Battery £11.70
 - PRF 1150 PN48 Case Int £1.90
 - PRF 1160 PN48 Car Adaptor £1.90
- Accessories prices incl. VAT & Delivery

SILICA SYSTEMS OFFER YOU

- **FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.
- **TECHNICAL SUPPORT HELPLINE:** Team of technical experts at your service.
- **PRICE MATCH:** We normally match competitors on a "Same product - Same price" basis.
- **ESTABLISHED 12 YEARS:** Proven track record in professional computer sales.
- **BUSINESS + EDUCATION + GOVERNMENT:** Volume discounts available 081-309 0888.
- **SHOWROOMS:** Demonstration and training facilities at our London & Sidcup branches.
- **THE FULL STOCK RANGE:** All of your requirements from one supplier.
- **FREE CATALOGUES:** Will be mailed to you with offers and software/peripheral details.
- **PAYMENT:** By cash, cheque and all major credit cards.

Before you decide when to buy your new printer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals or software, or help and advice with your new purchase. And, will the company you buy from contact you with details of new products? At Silica Systems we ensure that you will have nothing to worry about. We have been established for over 12 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".



MAIL ORDER HOTLINE
081-309 1111

SILICA SYSTEMS



MAIL ORDER: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-309 1111
Order Lines Open: Mon-Sat 9.00am-6.00pm No Late Night Opening Fax No: 081-308 0608

LONDON SHOP: 52 Tottenham Court Road, London, W1P 0BA Tel: 071-580 4000
Opening Hours: Mon-Sat 9.30am-6.00pm No Late Night Opening Fax No: 071-253 4737

LONDON SHOP: Selfridges (1st Floor), Oxford Street, London, W1A 1AB Tel: 071-629 1234
Opening Hours: Mon-Sat 9.30am-6.00pm Late Night: Thursday until 8pm Extension: 2814

SIDCUP SHOP: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-302 8811
Opening Hours: Mon-Sat 9.00am-5.30pm Late Night: Friday until 7pm Fax No: 081-309 0017

To: Silica Systems, AMFOR-0992-55 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX
PLEASE SEND A BROCHURE ON THE CITIZEN RANGE

Mr/Mrs/Miss/Ms. Initials: Surname:

Address:

Postcode:

Tel (Home): Tel (Work):

Company Name (if applicable):

Which computer(s), if any, do you own? 55G

AMAZING AMIGA PRICES!

ENTERTAINMENT TITLES			SRP	Our Price	SRP	Our Price		
Action Masters	29.99	18.99	Fuzzball	19.99	12.99	Nightshift	25.99	13.99
Alien Storm	25.99	13.99	G-Loc	25.99	13.99	Outrun Europa	25.99	15.99
Amnios	25.99	16.99	Godfather	25.99	13.99	Pacific Islands	29.99	16.99
Apidya	25.99	22.99	Hard Nova	25.99	15.99	Phantasie - Bonus Edition	25.99	13.99
Back to the Future 3	25.99	17.99	Heart of China	34.99	21.99	Power Up	30.99	18.99
Barbarian II	25.99	16.99	Heroquest	25.99	16.99	Powermonger	30.99	18.99
Bards Tale III	25.99	16.99	Hollywood Collection	30.99	16.99	Predator 2	25.99	16.99
Battle Chess II	25.99	16.99	Hudson Hawk	25.99	15.99	Robocop 3	25.99	15.99
Battle Isles	30.99	18.99	Hunter	25.99	16.99	Robocop 2	25.99	15.99
Beast Busters	25.99	15.99	Jimmy White's Snooker	29.99	18.99	Robozone	25.99	15.99
Big Run	25.99	16.99	John Madden's Football	25.99	16.99	Rules of Engagement	25.99	15.99
Blues Brothers	25.99	16.99	Keys of Maramon	25.99	16.99	Sensible Soccer	25.99	18.99
Bonanza Brothers	25.99	13.99	Kid Gloves II	25.99	16.99	Shadowlands	29.99	18.99
Brides of Dracula	25.99	16.99	Last Battle	25.99	15.99	Sim City	30.99	21.99
Capcom Collection	29.99	16.99	Last Ninja III	25.99	15.99	Ski or Die	25.99	15.99
Cisco Heat	25.99	16.99	Links	35.99	24.99	Smash TV	25.99	15.99
Crimewave	25.99	13.99	Lure of the Temptress	30.99	16.99	Super Sega	28.99	13.99
Cruise for a Corpse	27.99	17.99	M1 Tank Platoon	30.99	17.99	Starflight II	25.99	15.99
Deathbringer	25.99	16.99	Max Pack	29.99	13.99	Storm Master	29.99	18.99
Devious Designs	25.99	16.99	Megalomania	30.99	15.99	Striker	25.99	15.99
Eye of Beholder 2	30.99	21.99	Mega Twins	25.99	13.99	Thunderhawk	30.99	18.99
First Contact	25.99	15.99	Mercenary III	29.99	16.99	Titus The Fox	25.99	15.99
First Samurai	30.99	16.99	Mig 29 M Super Fulcrum	39.99	24.99	Top Banana	25.99	15.99
Formula 1 Grand Prix	34.99	22.99	Monkey Island 2	25.99	22.99	Volfied	25.99	15.99
			Movie Premier Collection	29.99	15.99	Vroom	25.99	16.99
						Wings	30.99	22.99

GRAPHICS & MUSIC	SRP	Our Price
Ami Magic	79.99	39.99
Audio Master v.IV	59.99	32.99
Audio Sculpture	49.99	29.99
Deluxe Video III	99.99	54.99
Dr T's KCS Sequ.		
3.5 level II	279.00	179.99
Dr T's Tiger Cub	99.00	54.99
Sequencer One	91.99	49.99
Sound Master v.IV	129.00	79.99
Spectra Colour	65.00	39.99
Super Jam	99.00	49.99
Synthia Professional	255.99	179.99
Take 2	49.95	37.99
Turtles Electric Crayon	6.99	5.99
Video Titler	89.00	59.99
Visionary (Aegis)	59.00	39.99

AMIGA UPGRADES / PERIPHERALS	SRP	Our Price
8373R4PD Toaster Vers	59.99	37.99
8520 CIA	15.99	11.99
8520PD CIA Latest Vers	19.99	13.99
Dustcover	3.99	3.49
Electronic Boot Selector	9.99	6.99
Extension Lead	4.95	3.99
Kickstart 1.3 ROM	36.99	22.99
4 Meg Upgrade Unpop.	59.99	37.99
4 Player Adaptor Lead	5.99	4.99
8372R3 Super Denise	59.99	37.99
8362R8 Denise	39.99	24.99
8372A Fatter Agnus	69.99	49.99

HOW TO ORDER: TELEPHONE THE HOTLINE OR COMPLETE & RETURN THE COUPON
OPENING TIMES: MON-FRI 9am-5pm • SAT 9am-1pm

TELEPHONE HOTLINE: 021-709 0790

To: Beavermas Ltd., Unit 21 Harvington Drive, Shirley, Solihull, West Midlands B90 4YN

DESCRIPTION	MACHINE	QTY	PRICE

I enclose cheque/PO for £ _____
 or Charge my Access/Visa/Mastercard No. _____
 _____/_____/_____
 Expiry Date _____
 NAME _____
 ADDRESS _____

 POSTCODE _____ TEL. NO. _____

Sub-Total	
Post & Packing *	
TOTAL	

* Post & Packing - UK Mainland £1.50 Per Order
 All Overseas Countries £2.50 Per Item

ALL ITEMS SUBJECT TO AVAILABILITY. ALL PRICES TO INCLUDE VAT. From time to time, you may receive further information from other organisations about offers, services and products that may be of interest to you. If you would prefer not to receive these please tick box

There's a saying in old Russia. Roughly translated, it goes something like: "A man playing *Tetris* cannot be expected to plough his field, even if it's about to rain." Quite what this means no one's really sure, but the fact is that it remains one of the simplest and yet widely played games since - er, that other simple, widely played game.

Now Spectrum Holobyte have fiddled about with it, tarted it up somewhat and MicroProse have released a new version under the grand name of *Super Tetris*. But the question is, is it super? Well...

A nice cup of Tetris

Everyone knows how the game works. (If you don't, have a look at 'Tetris through the ages' at the bottom of this page, but hurry up.) This super clone is, as you might expect, quite similar. This time, though, the pit has two halves. The bottom half is filled with rubble and treasures, while the top half is normal. Pieces fall as usual and you do your damndest to fit them in. When you do, the line disappears and instead of a piece falling next, a number of bombs appear - the number depends on how many lines you've just cleared. These can be moved and rotated as normal. When they hit part of a stacked piece, they explode (as bombs do) and destroy it. Thus they can be used to clear away your mistakes and reopen gaps you may have covered.

Now, say you've just cleared a line in the bottom half of the pit. (Go on, say it.) Instead of the pieces moving down to fill up the gap, they scroll upwards from the bottom, revealing part of a picture. To win the level, you need to clear all the bottom-half lines to completely expose the picture.

That's not all. Buried in the bottom half are treasures, which, when they are hit with

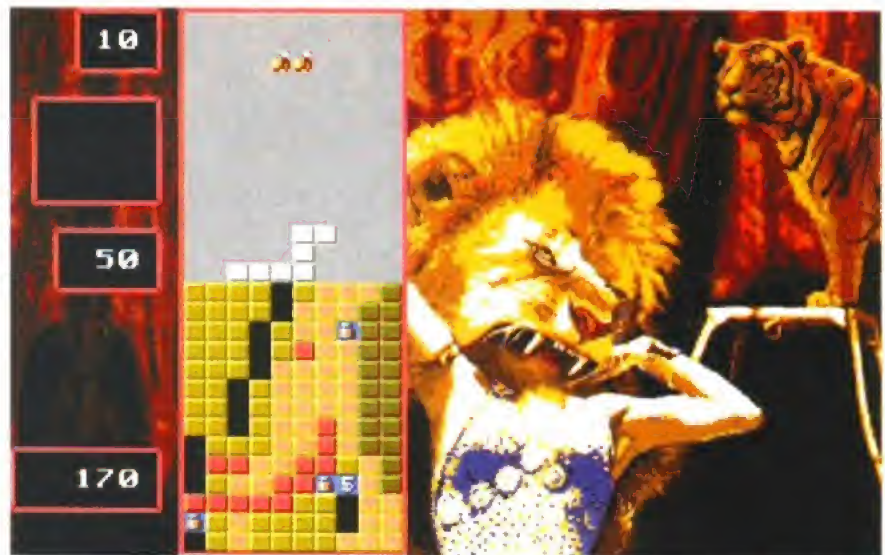


Super Tetris at its most basic, one player against a multitude of colourful shapes and off-putting backgrounds (based around the Russian Circus, home of the famous Tetris Brothers - not).

the bombs, do wonderful things, such as clear entire lines, or turn the next piece into a bomb, or add more pieces to your total remaining. You only have a set number of pieces to complete each level with - use them all up and it's sadly back to the options screen with the attractive picture of the tiger and of course the wibbly music.

There are other complications if you want them. You can impose a time limit on yourself if you're stupid, or play with someone else in cooperative mode (the pit gets wider and two pieces fall at the same time) or in competitive mode (lose your friends the easy way). There's also a rather ambitious, but pointless, head-to-head mode, whereby two Amigas are linked and the players compete against each other for the best score.

Oh, look this is just silly. There's no way you can move the pieces fast enough on level 10. Wild Thing! This is the feline equivalent to Rowntree's Lion Bars.



Super Tetris



Kids! Throw a *Super Tetris* party! Invite a young friend round, sedate him heavily and then persuade him to spend an hour or two fitting coloured shapes into holes! It's a riot!

The point where it all starts going horribly wrong. The hole on the left has just been blocked up by a panicky move, meaning another line will have to be cleared to get some bombs to open up the gap again. Hrrumph, as they say.



TETRIS THROUGH THE AGES

So just what is it about this *Tetris* phenomenon that makes it so popular, then? It's a simple idea: seven differently-shaped pieces fall one at a time and at random from the top of a pit, and pile up at the bottom. As they're falling you can rotate and move them left or right so they slot into the gaps in the other pieces. When a complete line is formed across the pit, the line disappears and all the other pieces drop down. The idea is to keep forming lines for as long as possible. When the pieces pile up so much they touch the top of the pit, it's game over (man). On later levels the pieces fall more quickly.

Dull, huh? Apparently not. When the game first appeared from Russia three or four years ago, many people collectively threw up their hands, exclaimed "Good grief, that really does look good and no mistake," and remortgaged their houses to rush off and buy as many copies as they could. Since then it's become a cult in the computer game world. Heck, even the Macintosh has a version.

Let's be totally honest here, just for one moment. The original *Tetris* game got (whippers) just a little bit boring after a few intensive plays, didn't it? This however goes some way towards rectifying that. Just dividing the pit up into two makes the game almost twice as hard - every line that you complete in the top half does nothing at all towards finishing the level. The bombs are an absolute godsend for clearing up all of your unforced errors and when they're used in conjunction with the treasures the game is turned into something completely different.

Two packets of Tetris please

You're still going to get bored after prolonged play, though, unless this sort of intensive and intuitive mind-work is your bag. It's unlikely that even the best player could survive for more than 20 seconds on levels eight and upwards, so the game effectively loses a couple of difficulty levels.

Generally it's a thumbs up to Spectrum Holobyte for turning what was really an average puzzle game into something with a little more longevity. Is it Super? Nah. It is Quite Good. That's more like it.

Ed Ricketts

Super Tetris MicroProse ■ £24.99

- Some purists might gag at what's been done, but the additions are definitely for the best.
- If you don't like the ordinary version this might be for you. There's far more variety...
- ...although more could have been made of the 'treasures'.
- Backdrops are pretty but pointless.
- Good in short doses.

Verdict **68%**

CALLERS WELCOME AT OUR BRANCHES OPEN 9-5.30 MONDAY TO SATURDAY

STOP PRESS
GCSE SOFTWARE
PACK - CALL!!

**WE WANT TO
BEAT ALL
PRICES!!**
CALL US!!

**ST ALBANS
NOW OPEN
SUNDAYS**
10.00AM - 4.30PM

Hobbyte

COMPUTING
ESTABLISHED 8 YEARS

10 MARKET PLACE ST. ALBANS
HERTS AL3 5DG TEL (0727) 56005/41396
THE GALLERY ARNDAL CENTRE LUTON,
BEDS LU1 2PG TEL (0582) 457195/411281

HOW TO USE THIS AD
For the first time ever, you can choose your own Amiga and software combination, and still benefit from the huge savings only available from package deals.
Want an A500 with 1500 software?
No problem!
Like an A1500 without games?
It's up to you!
All we ask is that you choose at least 1 software pack when you order your hardware (optional on CDTV, A3000 or CBM 386)

A3000 25MHZ

	52MB	100MB	240MB/425MB	
2MB	£1889	£2039		Phone
2MB + 7CM MONITOR	£2139	£2289		Phone
6MB	£2049	£2199		Phone
6MB + 7CM MONITOR	£2299	£2449		Phone
ALL PRICES INC. VAT				
With SCALA, D Paint IV and AmigaVision				ADD £299
Trade-in available				

AMIGA 500 PLUS

Full UK spec., inc. mouse, power supply, leads & manuals, etc. inc.

	ALONE	8833/1084
1MB	329.00	519.00
2MB	369.00	559.00
Zydec external drive with on/off & daisy chain port	ADD 48.00	
Also with Kickstart 1.3 + ROM Sharer for switching between 1.3/2.04 to eliminate compatibility problems	ADD 39.90	

AMIGA 1500/2000

Full UK spec with 1MB RAM, mouse, expansion as 2000, leads, manuals. New including Kickstart & Workbench 2.04.
Hard disc configuration inc. the high performance GVP II controller card, EXPANDABLE TO 8MB. Fast reliable 52MB + 120MB Quantum Drives are used.

	ALONE	WITH 8833/1084	WITH 7CM + FFXIXER
Dual Drive	495.00	685.00	859.00
DD+GVP+20MB HD	699.00	899.00	1065.00
DD+GVP+52MB HD	765.00	969.00	1129.00
DD+GVP+120MB HD	908.00	1112.00	1272.00
Per extra 2MB fitted to GVP			ADD £60.00
Also with Kickstart 1.3 + ROM Sharer			ADD £39.90
Also with XT/AT 88 for PC compatibility			ADD £95-£200.00

AMIGA 600

1MB, WB 2.05, 3.5" FD + Smart Card Interface
+ 12 month on-site warranty

	ALONE	WITH 8833/1084
A600	£334*	£524*
A600 20MB HD (larger available)	£434*	£624*

2MB VERSION ADD £45
* See below/across for software packs

Hobbyte are setting **NEW LOW PRICES** for A600s!!
These prices are our best guess as we go to press, but telephone before ordering - We may be able to do better!!

CARTOON CLASSICS GAMES PACK EXTRA (1MB REQUIRED)

• Cartoon Classics Games: Lemmings	25.99
The Simpsons	24.99
Captain Planet	25.99
• Deluxe Paint III with animation	79.99
• 3 Disc Home Pack including Word Processor, Spreadsheet, Database or PD Games compilation	9.99
TOTAL VALUE	161.96
WITH AMIGA/CDTV SEPARATELY	15.99 29.99

STARTER PACK I

• 10 Blank Discs + 80 capacity lockable disc box	26.98
• Mouse Mat	4.99
• Virus Killer Disk	4.99
• DPoint III or Home Accounts	79.99
TOTAL VALUE	116.95
WITH AMIGA/CDTV SEPARATELY	17.99 24.99

1500 PACK EXTRA

(ALSO FOR A500, A500+, A600 CDTV, 3000)

• The Works Platinum, word processor, spreadsheet, database	169.95
• Deluxe Paint III with animation	79.99
• Get the most out of your Amiga book	9.95
• Hobbyte 50 Programme PD Greats Pack II	39.95
• Puznic	24.99
• Taki	24.99
• Digital Home Accounts	29.99
• Elf	29.99
• Microswitch Turbo Joystick	9.99
TOTAL VALUE	418.79
WITH AMIGA/CDTV SEPARATELY	49.99 69.99
SPECIAL: Also with Cartoon Classics Games ADD 12.99	

THE HOT LOT PACK (1MB REQUIRED)

• Cartoon Classics Games: Lemmings	25.99
The Simpsons	24.99
Captain Planet	25.99
• Deluxe Paint III with animation	79.99
• 10 GREAT individually packaged games, previous RRP's up to 39.99 each, phone to choose from current list, or leave it to us! Children's games available.	269.82
• 50 Programme Hobbyte PD Great Packs II	39.99
• Dust Cover + mouse mat	9.98
• 10 Blank Discs + 80 Capacity Disc Box	26.98
• Microswitch turbo joystick	9.99
TOTAL VALUE	513.72
WITH AMIGA SEPARATELY	59.99 79.99
SPECIAL: ALSO 10 extra great games	ADD 25.00

NO OTHER DEALER CAN BEAT OUR CREDENTIALS

- 8+ years experience in Commodore product and here to stay
- Commodore trained staff are friendly and helpful and are parents, multimedia, educational, games, programming or technical specialists (usually more than one!)
- Open 9-6 pm Monday to Saturday and 10.00 am to 4.30 pm Sundays for convenient shopping.
- Callers welcome for advice and demonstration at our 1600+ sq ft High St, Town Centre branches
- Next day delivery for most orders received by 5 pm; express am and Saturday services available
- Hardware carefully handled and delivered safely and reliably by caged, insured, top name courier service
- 100% pre-despatch testing on Amigas
- Free 30 day, next day courier collection and delivery of NEW replacement (except product with on-site maintenance)
- Hotline support and in-house engineers
- Upgrade and trade in offers to keep you up to date
- Exceptional after sales service

NOT JUST ANOTHER MAIL ORDER COMPANY

For years a major player in Amiga Mail Order, Hobbyte also boast extensive expertise and experience in specification and support of multi-machine and specialist systems. Hobbyte have been recommended and trained by Commodore and successfully won major orders and support contracts from London Boroughs, MOD, educational establishments etc. We are pleased to be placed on tender lists.

This expertise is available to all our customers.

WHAT THE CUSTOMERS SAY

"...extremely courteous and rapid response to my problem...I will not hesitate to recommend you to my colleagues."

Dr Darrel Maddy - Slough

"Thank you for dealing so promptly with my requests...I was reluctant about ordering my computer mail order. However I have been very pleased with my dealings with Hobbyte - you are to be commended for your customer service."

Trevor Patterson - Bangor

"We have dealt with many of the leading computer suppliers, in the past, but the service you provided was second to none."

EW Bailey - Preston

"...Thank you for everyone's good service..." it arrived at 7.20am the next morning."

David J Thomas - Wolverhampton

"I was very impressed with the service I received in the first instance, I really appreciated how quickly you managed to get the printer despatched from your Luton branch for me."

J S Cazodinos - Amersham

PROFESSIONAL FAMILY PACK (1MB REQUIRED)

• Cartoon Classics Games: Lemmings	25.99
The Simpsons	24.99
Captain Planet	25.99
• Deluxe Paint III with animation	79.99
• The Works Platinum Word Processor, Spreadsheet and Database	169.99
• Their Finest Hour, Flight Simulator OR Back to the Future and Postman Pat (1.3 only) OR Digital Home Accounts or Edd the Duck	29.99
• Virus Killer Disk	4.99
• 50 Programme Hobbyte PD Greats Pack II	39.99
• Hobbyte Infant, Junior (specify) or Secondary Educational Pack	19.99
• 10 Blank Discs + 80 Capacity lockable disc box	26.98
• Mouse Mat + Dust Cover	9.98
• Turbo Microswitch Joystick	9.99
TOTAL VALUE	468.86
WITH AMIGA/CDTV SEPARATELY	79.99 99.99
SPECIAL: Also with Star LC 200 9 PIN Colour Printer and Starter Pack	ADD 180.00
Also with Citizen 224+24 Pin Colour Printer and Starter Pack	ADD 230.00

NEW

COMMODORE 386SX GAMES + WP PACK

CBM 386 16MHZ, 40MB HD, 1MB EXP RAM, 3.5" DRIVE, VGA 14" COLOUR MONITOR

- CD quality stereo speakers
- Sound card
- Mouse
- 8 entertainment titles: Wing Commander, Hard Drivin 2, Midge 29, Trivial Pursuit, Escape from the Planet of the Robot Monsters, Pitfighter, Castle Master, Super Space Invaders
- Secretary Bird WP, Spreadsheet, Database
- DOS 5
- Full 1 year on-site warranty

£789*

Also with Star LC 24-20 Printer, lead, paper and printer stand

£975*

*** EVEN LESS WITH PART EXCHANGE!! -PHONE!**

COMPLETE RANGE OF PC'S + NOTEBOOKS AVAILABLE

A3000 24 BIT SYSTEM THE ULTIMATE!!

- Extra 4MB Fast RAM
- Progressive 68040 accelerator
- 24 bit colour card
- Vlab 24 bit colour real time digitizer
- 24 bit 3D Art + animation s/w
- Fitting and Free 1/2 day customised training

TOTAL RETAIL PRICE OVER £6,000
HOBBYTE PRICE **£3995** INC VAT

MITSUBISHI G650/40

A3 postscript colour ink jet printer, 8MB with starter kit
HOBBYTE PRICE **£7349** INC VAT

FINANCE AVAILABLE
written details on request

ABSOLUTE BEGINNERS PACK 3-9 YEARS

	VALUE/RRP
• Fun School 2, under 6 years, 6-8 years or 8+ years	19.99
• Fun School 3 or 4, specify under 5 years, 5 to 7 years or 7+ years.	
- 12 stunning UK educational games with beautiful pictures, exciting animation and music that helps to develop number, word and other skills. Up to 6 skill levels. Conform to National Curriculum requirements.	24.99
• Postman Pat (1.3 only), OR Edd the Duck (7+ years) OR Matched Pairs OR Blinky's Scary School	14.99
• Hobbyte Infant or Junior (specify) Educational Pack, featuring up to 12 "Learn while you play" games	19.99
• Hobbyte 30 Easy Children's Games, 10 pack disc including Train Set and other top entertaining PD titles	19.99
• 10 Blank Discs	6.99
• Joystick	9.99
• Deluxe Paint II/Photon Point II or Elf or Puzznic	89.99
TOTAL VALUE	206.92
WITH AMIGA/CDTV SEPARATELY	49.99
	69.99
SPECIAL: With Cartoon Classics Games and Dpoint III + animation instead of Dpoint II/Photon Point II (1MB req.)	VALUE 80.00
	ADD 14.99

AMOS PROGRAMMER'S PACK (1MB REQ.)

	VALUE/RRP
• EASY AMOS - complete, simplest possible, fun-to-use beginners programming course. Learn to write professional looking arcade games, educational, etc. software in weeks, not years. Complete with graphics, sound, animation and more. Upgradable to Amos.	34.99
• Cartoon Classics Games: OR	
Lemmings	25.99
Elf	25.99
Captain Planet	24.99
The Simpsons	24.99
• 50 Programme Hobbyte PD Greats Pack	39.99
• 20 Blank Discs + 80 Capacity LockableDisc Box	33.97
• Mouse Mat + Dust Cover	9.98
• "Get the Most out of Your Amiga" book	9.95
• Microswitch Turbo Joystick	9.99
TOTAL VALUE	215.84
WITH AMIGA/CDTV SEPARATELY	59.99
	79.99
As above, but with:	
• Amos the Creator instead of Easy Amos	
WITH AMIGA/CDTV SEPARATELY	69.99
	89.99

NOTE: For both above packs, a second floppy or hard drive and a printer for listing are recommended, but not essential.

TRAMPY'S OR THOMAS'S PACK 2-9 YEARS

AT LEAST 57 EDUCATIONAL/FUN FILLED GAMES!

	MAX VALUE/RRP
• The Shoe People - 6 colourful and entertaining games featuring Trampy and friends to encourage early number reading and pre-reading skills. With Shoe People music OR Thomas the Tank Engine's Fun with Words - 6 separate easy to use learning programmes with animation and sound.	29.99
• Shapes and Colours - Bobby the Clown entertains and lays down the foundation for maths and writing in 6 colourful animated games.	9.99
• Fun School 2, 3 or 4 - the "Fun School" suite have won just about every award going. 5 or 6 wonderful animated games.	24.99
• OR Picture Book: 4 colourful and amusing games from ex "Fun School" design manager will delight young children.	
• Deluxe Paint II/Photon Point II or Elf or Puzznic	89.99
• Hobbyte Infant Educational PD Pack, containing 10 fun while you learn games	19.99
• Hobbyte 30 Easy Children's Games Pack	19.99
• 10 Blank Discs, Disc Box, Joystick, Mouse Mat	26.96
TOTAL VALUE	221.90
WITH AMIGA/CDTV SEPARATELY	49.99
	69.99
SPECIAL: With Cartoon Classics Games and Dpoint III + animation instead of Dpoint II/Photon Point II (1MB req.)	VALUE 80.00
	ADD 14.99

ARTISTS PACK

	VALUE/RRP
• Deluxe Paint III with animation (upgradeable to DP IV)	79.99
• Power 400dpi scanner with Powerscan professional s/w	99.99
• 10 disc Hobbyte PD Graphics Pack inc. clip art + utilities	39.99
• Cartoon Classics Games: OR	
Lemmings	25.99
Elf	25.99
Captain Planet	24.99
The Simpsons	24.99
• 50 Programme Hobbyte PD Greats Pack	39.99
• 20 Blank Discs + 80 Capacity LockableDisc Box	33.97
• Mouse Mat + Dust Cover	9.98
• "Get the Most out of Your Amiga" book	9.95
• Microswitch Turbo Joystick	9.99
TOTAL VALUE	400.82
WITH AMIGA/CDTV SEPARATELY	139.99
	169.99
DTP PACK	
ALL AS ARTIST'S PACK PLUS: PAGESSETTER II	400.82
TOTAL VALUE	499.81
WITH AMIGA/CDTV SEPARATELY	189.99
	219.99
OR: PRO PAGE 3	269.99
TOTAL VALUE	670.81
WITH AMIGA/CDTV SEPARATELY	239.99
	279.99

ACCESSORIES

Blitz virus protector + backup device for any external drive	23.99
A520 Modulator	26.99
A500 Deluxe control centre	44.99
Competition Pro Joystick	11.95
CDTV Keyboard	39.99

FLOPPY DRIVES

Zydec 3.5 external drive, daisychain + on/off	48.95
Curmana CAX 354 3.5 external drive, beige	52.99
CDTV external 3.5 drive, black	49.99
PC 8808 with anti click + Blitz back up and virus protector	67.95
PC 8808 as above, Cyclone compatible	78.99
PC 8808 with Blitz + X Copy	98.99
Dual drive as PC 8808	115.95

MONITORS/ACCESSORIES

CBM 1084SDI monitor + leads	194.99
Philips 8833 MK II monitor and leads	199.00
Tilt + swivel stand for Philips 8833	12.99
CBM 1960 High res monitor	379.99
Philips 7CM Hi-res SVGA. 28dp inc. tilt + swivel	259.99
Microwave Flicker Fixer	79.99

HARD DRIVES/CD

A570 for 500+/600	265.00
A570 with 2.04 for 1.3	309.00
A500 GVP 530 52 MB HD +68030 1MB exp. to 8MB	655.99
A500 GVP 530 120 MB HD +68030 1MB exp. to 8MB	844.95
A500 GVP 530 240 MB HD +68030 1MB exp. to 8MB	1038.95
A590 20MB HD	269.99
A500 GVPH 52MB HD, exp to 8MB	332.99
A500 GVPH 120MB HD, exp to 8MB	435.99
A1500/2000 GVP II controller, exp to 8MB + Quantum 52MB HD	264.99
A1500/2000 GVP II cont., exp to 8MB + Quantum 120 MB HD	406.99
Per extra 2MB fitted to above	62.99

OLD AMIGA TRADE-IN

The best trade-in allowance, extra for peripherals and accessories. Trade in your old machine for a brand new A600/A1500/2000/3000, CDTV or even a PC.

SCANNERS

Naksha 400 dpi 32 greyscale + Datascan software	87.99
Power Hand Scanner, 400 dpi, 64 greyscale, Powerscan software	97.99
Power Colour Hand Scanner	235.95
Sharp JX100 A6 Scanner + scanlab s/w, up to 18 bit	595.95
Sharp JX-320 A4 Scanner + s/w, up to 24 bit	1729.00

EXPANSION/ACCELERATORS

A500 512K RAM exp + dock	19.90	CBM A501 exp	29.00
1MB exp for A600	49.99	A500 + 1MB exp	28.99
K51.3 or 2, ROM Sharer	39.90	A500+ switch 1MB exp.	37.99
GVP A500 accel.-see Hard Drives		Progressive 68040 A500	719.99
G Force 68030 25MHZ/1MB	589.00	Prog 68040 A1500/A3000	Phone
G Force 68030 50MHZ/4MB	1389.00	G Force 68030 25MHZ/1MB	589.00

1.3 TO PLUS UPGRADE

Chip fitting and board upgrade available, by our qualified engineers or DIY kit.....PDA

EMULATION

KCS Powerboard	188.99	AT Bridgeboard for 1500	329.99
GVP 286 Emulator	216.99	XT Bridgeboard for 1500	99.00
AT Once	178.99	GVP 40/4 for 1500	945.99

DISCS

10 Blank DS/DD discs in box	6.99	50 Blank DS/DD discs	17.99
50 Blank DS/HD discs	27.99		

SOFTWARE

Games-tel for list	FROM 3.50	All latest games	30% OFF
ALL SERIOUS TITLES BEST PRICES EG:			
Caligari	175.00	DP IV	54.00
Pro Page 3	107.00	Pro Draw 2	79.99
Imagine	187.00	TV Point	697.00

NO DEPOSIT CREDIT FACILITIES

Credit terms at 34.8% APR (variable) can be arranged for purchases over £150, subject to status. Competitive leasing schemes are also available for businesses, including sole traders and partnerships. Just telephone for written details and application form.

PRINTERS

	WITH STARTER PACK	ALONE	WITH STARTER PACK
Citizen 120+d	108.99	Citizen Swift 24e	246.95
Star LC20	159.99	Citizen Swift 24e col*	266.95
Star LC200 col	167.99	Star XB 24/200 col*	347.99
Citizen Swift 9	168.99	Star XB 24/250 col*	416.99
Star LC 24-20	178.99	HP Deskjet	325.99
Star LC 24-200	216.99	HP Deskjet col	490.99
Star LC 24-200 col	232.99	HP Paintjet	526.95
Citizen 124D	176.99	BJ1Dex Bubblejet port	216.95
Citizen 224	205.99	BJ 300	338.99
Citizen 224+col*	218.99	Star SJ 48	208.99

STARTER PACK: 500 Sheets A4 or continuous paper, Amiga to printer lead & Universal Printer Stand * with new driver

ORDERING:

TELESALES NO: (0727) 56005

Next day delivery for credit card orders placed before 4.30pm subject to availability. Alternatively send cheque, postal order, bankers draft or official order (PLCs, Education and Government bodies only) to: Dept. AF, Hobbyte Computer Centre, 10 Market Place, St. Albans, Herts AL3 5DG. Please allow 7 working days for cheque clearance. Subject to availability, despatch is normally within 24 hours of receipt of cleared payment. Prices are correct at time of going to press, however, we are sometimes forced to change them, either up or down. Please check before ordering. Additional services and different packages may be offered in our showrooms, and prices may vary from Mail Order prices. Personal callers are asked to quote this ad to ensure Mail Order packages are offered.

DELIVERY CHARGES:

Small consumables & software items	UK MAINLAND (NOT HIGHLANDS): Despatched by post, please check charges when ordering
Other items, except lasers	Next day courier service, £10 per box
Offshore and Highlands	Please enquire
IN ADDITION WE OFFER THE FOLLOWING EXPRESS SERVICES:	
Saturday deliveries	Normal rate plus £15 + VAT per box
Am next day	Normal rate plus £8 + VAT per box

Amiga prices, except where stated are inc. VAT. £ & 0.0 E.

TELE-ORDER (0727) 56005





If you've ever played G-LOC R360 in the arcades you'll know how great a game this could have been. Unfortunately, it isn't.

G-LOC R360

US Gold ■ £25.99

Trying to convert Sega's all-spinning, all-dancing into-the-screen shoot-em-up for the Amiga is not a task for the faint-hearted. But that's what US Gold have attempted here. You are at the controls of an experimental super-plane, the ABM5 MkII.

Laid before you are 36 difficult missions. So difficult, even the manual describes them as suicidal. They would be easier if the designers of your plane (or the game) had spent less time on the weapon systems and more on making it flyable. If you must play this game, use a mouse rather than a joystick because it allows much more aerial manoeuvrability, and means you will be able to complete missions. The game is transformed under mouse control, and instead of binning it, you'll find yourself wanting to play it two or three times before you put it on the shelf.

G-LOC means loss of consciousness due to G force. If you do actually lose consciousness then it will probably be down to boredom. Avoid like the plague.

Marcus Dyson

Verdict **44%**

AMIGA FORMAT

92

SEPTEMBER 1992



Smooth scrolling, bright backgrounds, a cute character and a fun intro sequence. Hoi has got everything except playability.

Hoi

Hollyware ■ £25.99

This was written by three young Belgians (the ones who wrote the music package *Mugician* reviewed in *Amiga Format* 19) and it has taken them a lot of effort to get it in to the marketplace. And their time hasn't been wasted, because as platform games go *Hoi* has all the right ingredients: an undeniably cute hero, bright copper backgrounds and very smooth scrolling. But somehow it just fails to produce the addictively playable game it should.

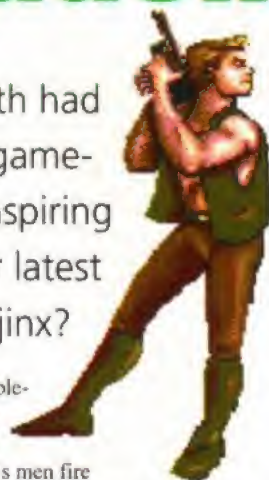
There is a bit of the 'play till you get killed and then start again and remember what to avoid' syndrome to the game. Sometimes you are forced to take a jump into the unknown because the screen doesn't extend far enough for you to see where you're going. The design of the levels is simply not intelligent enough for this to be a truly enjoyable game. The first level is the worst, if you can make it to subsequent levels, then you may find yourself enjoying *Hoi*.

Marcus Dyson

Verdict **72%**

Guy Spy and the Crystals of Armageddon

Dragon's Lair and Space Ace both had stunning graphics, but lacked the gameplay that ReadySoft's awe-inspiring animation promised. Can their latest graphical extravaganza break the jinx?



Dragon's Lair, but with gameplay. Of course it seems such an obvious concept after those clever Canadians have gone out and put a game behind the stunning graphics and come up with *Guy Spy*. Guy's a cunning lad. No-one would ever think he was a secret agent with a name like that. He's been given the job of saving the world from Von Max, a failed Nazi, who has in his possession a clutch of mysterious crystals. But don't worry because Guy's armed with very sharp reflexes and also a really quite astonishing pair of boots.

Guy Spy is a character that really is under your control. He walks! He skis! He attacks the walking dead with scimitars! And what's more, his size-15 boots flap around comically at the same time.

The game is divided into 13 stages, tracing Guy's journey around the world as he pursues the portly Von Max. The presentation is, as you'd expect, excellent. The graphics and animation are great, and although the pipey music quickly becomes irritating, there are some top-notch sampled effects. As for the game itself - well, sadly it seems that *Guy Spy* is destined to be remembered with slight affection as a Brave Attempt. Rather than make sweeping statements about the game as a whole, I'll take you through the various stages and point out once again why a game like this has failed to come up with the goods.

This is the game

Stage one finds Guy pinned down at a train station by a squad of Von Max's goons. The joystick controls Guy's gunsight as it wobbles around the screen, with diagonal movement causing the super agent to leg it to avoid the opposition's bullets. But oh no! By keeping the gunsight in the corners of the screen, you can blast every goon as he runs on to the platform. Scene two is, erm, actually rather good.

Guy rides a cable-car across the mountains while Von Max's men fire at him from the car ahead. It's very fast and great fun as you dodge from window to window, occasionally stopping to reload before beavering over to the opposite side of the car and then blazing away because one of the villains is about to toss a stick of dynamite at you. Not too much of a challenge but highly enjoyable.



Ha! Fiendish Von Max, prepare to meet your doom. Not even the fabled dangly woman of myth will be able to stop my righteous wrath.

Scene Three takes place in a Swiss mountain cabin, where Von Max releases the unsurprisingly huge Olga to finish off our hero. Guy has to dodge Olga's blows and try to wrongfoot her so he can slip past. But oh no! By running up to the cabin door while Olga is making her entrance, Guy can escape straight away.

Scene Four finds Guy skiing down the mountain. Various obstacles loom up out of the mists, and Guy has to swerve to avoid them. But oh no! The obstacles appear at random, so Guy has to hope luck is riding with him. After this scene, the action switches to Egypt, where Guy is cunningly trapped inside a giant pyramid. Scene Five finds him wandering the corridors, ever alert for fiendish traps. But oh no! By merely keeping Guy on the



Guy is a pretty athletic dude. It's just a pity that the controls are so sluggish. You have to predict what's coming up next so there's time to move.



The gentleman in the feathers has asked if Guy can direct him to the bus station, and Guy's impulsively shot him in the throat. Another triumph for international co-operation and understanding.

move at all times, you avoid every single one of the blessed things.

Halfway through the game, and scene six finds Guy battling the sinister god Ramah-Kul. Everyone's favourite secret agent has to pick up swords and throw them at the god while avoiding the blasts of energy that he calls down from above. But oh no! The blasts are directed at Guy's last position in the room, so all you have to do is, again, keep him moving. Seven, eight and nine are more fight scenes. But oh no! By keeping the fire button pressed you defeat your opponents with ease. Scene nine is another fight, this time on a log high above a raging river, with – yes! – more easy pappy opponents. To beat the level you have to cross the log. Cunningly, the instructions omit this slightly important piece of information.



Tragically, Guy's fencing skills prove unequal to the task of disposing of a bandaged dead guy. These death scenes are better than the game.

It's enough to make a roach retch

So, after about an hour's play we're on scene eleven. To make up for the embarrassing simplicity of the previous levels, this one's stupendously difficult. Guy has to run through a forest, jumping over tiger traps while loosing arrows at the unfriendly natives. Unfortunately it takes far too long to fire an arrow, so you



You don't fool me, sinister thralls of Nazism. That beautifully choreographed two-step is merely a veil to obscure your true intentions.

have to forget that and make your way along by continuously edging forwards and ducking, then jumping over the pits when there's a clear spot. Even more unfortunate is that some of the villains fire impossible-to-see darts rather than hefty spears, so you have to hope that Guy's luck is holding up again. But worst of all is that the scene seems to go on forever. It simply refuses to end.

After several agonising attempts, I gave it up and had a nice relaxing game of *The Perfect General* instead, so I'm afraid I don't know what the final two scenes are like. They could be extremely good, but somehow I doubt it.

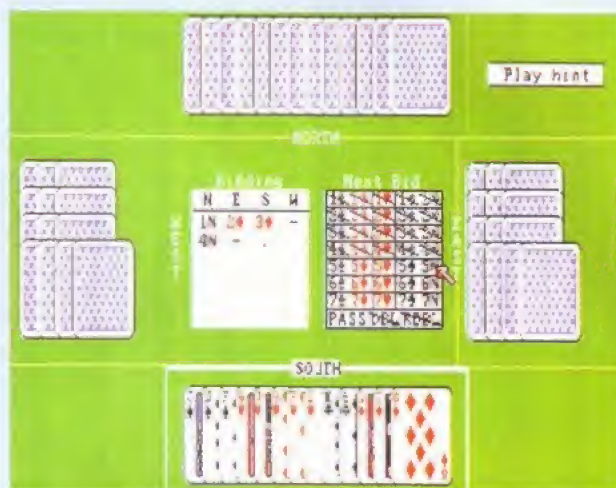
Well, that's about the size of it. I could harp on about the interminable animated intro sequences that you can't skip, or the save-game option which stores a grand total of one position on a disk but I think it best to let the whole thing slip quietly by. Never mind Readysoft – it was a Brave Attempt (he said with slight affection).

John Pillar 🗣️

Guy Spy Readysoft ■ £29.99

- It looks and sounds great. The samples are particularly snazzy, and while Guy is a suspiciously Dirk the Daring-like character, his animation is a real hoot.
- The cable-car bit is excellent. It's a bit like taking all the good points of *Operation Wolf* and compressing them into one compact and bijou package.
- Erm, Guy's boots are highly amusing.
- But the rest of it is a complete non-starter.

Verdic 48%



The only screen where Omar doesn't make snide comments about your playing style is the bidding screen. And the silence is golden!

Omar Sharif's Bridge

Oxford Softworks ■ £34.99

The high-society card game on the Amiga, with the ultimate licence-deal: Omar Sharif. But this bridge game is not aimed at beginners – there's not enough detail in the manual to learn from scratch. If you're a bridge player, you may find it useful if you can't get three other players together. It could also improve your bridge because you can drop out of the hands where you aren't the declarer. Consequently you can play a lot of hands in one sitting and learn from them all.

The Amiga plays any number of the other hands. The in-game options are good, but there's not enough variety in the bidding to make it superb. Plus the computer is slow to think and it sometimes plays like a real fool.

Chris Anderson 🗣️

Verdic 58%



"And a brilliant forecourt smash-n-grab topspin lob from, er... the man in the disgusting green and turquoise shorts."

Tennis Cup 2

Loricel ■ 25.99

Ohmigosh! Quick, hide! It's another tennis game!!! This offering is a reworking of their 1990 release (surprisingly titled *Tennis Cup*). All the best features are retained – sampled spot effects, digitised speech for scoring, and split-screen mode for two players, but some new ones have been added such as better character animation and more user-friendly options.

The game comes on two disks which must be constantly swapped even if you have two disk drives. This process is tedious, and spoils the otherwise excellent presentation. I thought programmers would have learned by now that Amiga users HATE UNNECESSARY DISK SWAPPING! There, I've said it.

There are a number of tennis games available on the Amiga and most of them are good; *Tennis Cup 2* is an excellent addition to the list. It's great fun to play, especially in two-player mode with a split screen, and it has a large variety of options. However, if you already own any self-respecting tennis game, then this one will probably not be enough of an improvement to make you part with the necessities.

Andy Nuttall 🗣️

Verdic 80%



PHOENIX

SALES 0532-311932

Our friendly, highly trained sales team will ensure that your order is dealt with efficiently and with the minimum of fuss.

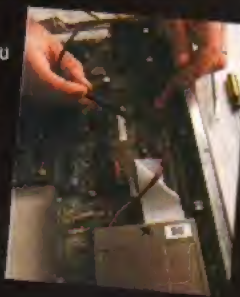


At the time of placing your order we will advise you of anticipated delivery time and answer any other queries you may have regarding your purchase. All major credit cards accepted.

TECHNICAL 0532-319061

The Phoenix product helpline ensures that all our customers benefit from the highest level of after sales technical support.

We also offer advice to help you in choosing exactly the right product for your requirements thus eliminating the possibility of an unwanted or unnecessary purchase.



DESPATCH 0532-310796

Once you have made the decision to purchase from Phoenix your order will be dispatched promptly and without fuss.



Using one of the countries leading courier services ensures that your goods arrive on time, intact and in the same condition they left our stock.

A 600 RAM EXPANSION

Phoenix-the first company to market A500 Plus RAM Upgrades-now introduce the Phoenix PA 601

Features Include • Trapdoor installation Will not invalidate your warranty • Battery backed real time clock • Long life lithium cell • Enable/disable facility • Full installation instructions • Made in U.K. • Complete with famous Phoenix 2 year warranty.

- Phoenix PA 601-populated-1Mb.....£44.99
 - Phoenix PA 601-unpopulated-0Mb.....£24.99
 - Phoenix A 600 ROM Sharer.....£29.99
- Keyboard switchable!

AMIGA 600



With its modern compact semi portable wedge shape design, the new 600 is fully featured and can be purchased in the following configurations:

- A 600 (incl. Deluxe Paint + software title).....£339.99
- A 600 HD (inc. 20 Mb Hard Drive).....£444.99
- A 600 2Mb (incl. above software).....£384.99
- A 600 HD 2Mb£489.99

PHOENIX AMIGA Power Pack

When purchasing any Amiga you can also buy our unbelievable value PHOENIX POWER PACK, which includes over £100 of quality software and accessories. Probably the best bundle around, just look at what you get!

SOFTWARE
Man Utd Europe • Kick Off 2 • Captive Rick Dangerous • Pro Tennis Tour 2

ACCESSORIES
Fully Microswitched Joystick
50 Capacity 3.5" Disk Box
8mm Mouse mat • 10 Phoenix Branded Disks with Labels

Phoenix Power Pack.....£39.99

AMIGA 1500

2.04 Workbench Includes: Deluxe Paint 3, Platinum Works, Home Accounts, Toki, Puznic, x Elf, Amiga Format Book and Joystick

AMIGA 1500.....£554.99

AMIGA 1500 + 1084 SDI

This **SPECIAL OFFER** combines both the A1500 (as shown above) and the legendary Commodore 1084 SDI Monitor.

AMIGA 1500+1084 SDI.....£744.99
Limited Stocks Only!

EMULATORS-A 500

- GVP PC-286 16MHz.....£239.99
- Vortex A Tonce Plus 286 (16MHz).....£214.99
- KCS Powerboard (with DOS 4.01).....£199.99
- KCS Powerboard only.....£184.99

"It was a real pleasure dealing with your company, and I will recommend you to all of my friends"

A Bicknell-Manchester

MONITORS

- PHILIPS 8833Mk II.....£214.99
Colour Stereo Monitor Including "F19 Flight Simulator" and 1 years on-site warranty.
 - COMMODORE 1085 SDI£216.99
 - COMMODORE 1084 SDI.....£199.99
- All monitors are supplied with a **FREE** cable for connection to your Amiga.

MONITOR ACCESSORIES-

- 14" Dust covers.....£4.99
- 14" Tilt & Swivel stand.....£13.99
- Anti-Glare filter screen.....£19.99
- A4 Copy Holder.....£12.99

HARD DRIVES A500

GVP IMPACT SERIES II Hard Drives, the fastest Hard Drive/Controller for the Amiga. Features Game Switch, external SCSI port, FAAASTROM SCSI Driver, GVP's custom VLSI chip and internal RAM expansion up to 8 meg! Units use high specification fast-access QUANTUM Hard Drives coming with 2 yr. guarantee.

- A500-HD8+ 52 Mb (Unpopulated).....£349.99
- A500-HD8+ 120 Mb (Unpopulated).....£464.99
- A500-HD8+ 240 Mb (Unpopulated).....£729.99
- ROCHARD 52Mb£339.99
- ROCHARD 105Mb£449.99
- ROCTEC (Controller Only).....£164.99

Very similar in style and appearance to the GVP HD8+ but unpopulated and without a hard drive so you can fit your own. Great for all those drives lying at the bottom of cupboards! Please specify IDE or SCSI.

EXTRA MEMORY-Only £27.99 when bought with drive!

HARD DRIVES 1500/2000

- Series II Hard Disk Controller/RAM card.....£139.99
- Series II 52 Mb Hard Disk and RAM card.....£279.99
- Series II 120 Mb Hard Disk and RAM card.....£419.99
- Series II 240 Mb Hard Disk and RAM card.....£649.99

EXTRA MEMORY-Only £27.99 when bought with drive!

ACCELERATORS A500

GVP COMBINATION ACCELERATORS & HARD DRIVES-The ultimate expansion product for the Amiga 500!

- A530 Combi 40MHz + 52Mb Hard Drive.....£694.99
- A530 Combi 40MHz + 120Mb Hard Drive.....£829.99
- A530 Combi 40MHz + 240Mb Hard Drive.....£1019.99
- A530 68882 Co-Processor.....£229.99

ACCELERATORS 1500/2000

- GVP G-Force 030-25MHz + 1Mb.....£545.99
- GVP G-Force 030-40MHz + 4Mb.....£894.99
- GVP G-Force 030-50MHz + 4Mb.....£1264.99

ACCELERATOR RAM Modules

- 1Mb Simm-32 Bit 60 Nanoseconds.....£65.99
- 4Mb Simm-32 Bit 60 Nanoseconds.....£182.99

DISK DRIVES

All drives feature super slim design, enable-disable switch, thru port and come with a 1 year replacement guarantee!

- Phoenix Deluxe Drive.....£47.99
- Roctec Roelite.....£54.99
- Cumana CAX 354.....£52.99
- Replacement A 500 Internal Drive.....£39.99
- Disk head cleaner.....£3.99

PHOENIX A500 Plus 2 Meg RAM Upgrade Modules



A PHOENIX RAM module can expand your chip RAM up to 2 Mb by using the trapdoor expansion port. Extra RAM is necessary to unleash the incredible graphics capabilities of your Amiga. Designed and built to exacting standards in the U.K. all our boards carry a full 2 year no quibble replacement guarantee. It's never been cheaper to upgrade!

- 1 Mb Fully populated RAM board.....£39.99
- 1 Mb unpopulated RAM board.....£16.99

PRINTERS

- STAR-LC20.....£134.99
- LC200 Colour.....£195.99
- LC24-20.....£199.99
- LC24-200.....£224.99
- LC24-200 Colour.....£279.99
- SJ48 Bubblejet.....£229.99

Star printers come with one year warranty.

CITIZEN-

- Swift 9 Colour.....£194.99
- 224 mono.....£214.99
- 224 Colour.....£244.99
- Swift 24e Colour.....£274.99

Citizen printers come with 2 year warranty.

HEWLETT PACKARD-

- Deskjet 500.....£339.99
 - Deskjet-500 Colour.....£559.99
- HP printers come with 3 year warranty.

- HP black ink cartridge£24.99
- HP colour ink cartridge£29.99

PHOENIX PRINTER PACK-

Supplied with ALL printers containing 1.8m std. printer cable, printer ribbons/cartridge and 250 sheets of paper absolutely **FREE**

PRINTER ACCESSORIES-

- Dust covers from.....£4.99
- Ink cartridges from.....£13.99
- Mono ribbons from.....£3.50
- Colour ribbons from.....£7.99
- Printer stand.....£7.99
- Auto sheet feeder.....£POA

CHIPS

These prices are accurate at the time of going to press but please call for the best deals. Quantity discounts are also available on some chips so please ask.

AMIGA CUSTOM CHIPS

- Kickstart 2.04 ROM.....£34.99
- Kickstart 1.3 ROM.....£29.99
- Fatter Agnus 8372A.....£34.99
- NEW Super Denise.....£34.99
- CIA 8520A.....£9.99

MEMORY CHIPS

- 4 Mb x 9 (-70) Simm.....£19.99
- 1 Mb x 9 (-80) Simm.....£29.99
- 256k x 4 (-80) Zip.....£29.99
- 256k x 9 (-80) Simm.....£12.99
- 1 Mb x 1 DRAM.....£3.49
- 256k x 4 DRAM.....£3.49

*This price is for 1 Mb of RAM

These chips cover practically every popular memory expansion or Hard Drive system on the market for the Amiga ie. GVP, SUPRA, MICROBOTICS, COMMODORE

RING OUR TECHNICAL HELPLINE IF YOU NEED ADVICE

MEMORY EXPANSION

SUPRA 500RX Offer the ultimate in Fast Ram expansion units.

- 8 Mb pop to 1 Mb*.....£99.99
- 8 Mb pop to 2 Mb*.....£124.99
- 8 Mb pop to 2 Mb.....£149.99
- 8 Mb pop to 4 Mb.....£209.99
- 8 Mb pop to 8 Mb.....£309.99

(*Uses 256x4 Zips)

VIDEO

Rombo's new Vidi Amiga 12 is the Scottish Company's direct replacement for their famous complete colour solution. Leaders in video capture systems, they now introduce the world's first mass market colour digitiser for under £100.

VIDI-AMIGA 12.....£94.95

FEATURES INCLUDE: • Colour images captured in less than a second • Mono images grabbed in less than a second • Multi Tasking software • Advanced error diffusion stippling • Cut and paste with masking • Capture into a user definable window • Load and save IFF, ILLM & ANIM files • Grab flipped on an X or Y axis • Multi frame store with animated playback • Composite or S-Video input

TAKE 2.....£42.99

A must for computer artists and enthusiasts of any age. • Traditional animation • Story boards • Product Presentations • Home Line Tester • Cartoon Productions (both visual and sound).

ROCGEN Plus.....ONLY £129.99

Quality features and performance-Recommended.

ROCTEC ROCKEY.....£299.99

(As detailed opposite).

ACCESSORIES

- Zy-Fi Stereo speakers.....£37.99**
These quality stereo speakers have become the Amiga's standard-An excellent companion for any gaming soirees!
- Control Centre.....£34.99**
Transforms your Amiga into any ergonomists dream-giving a hi-tech interated workstation environment.
- DATA SWITCHES** - (25 pin D type)
- 2 way.....£15.99
3 way.....£17.99
4 way.....£19.99

- STORAGE:**
- 90 Capacity BANX.....£11.99
150 Capacity POSSO.....£18.99
- Disk Box 10 Cap.....£1.99
Disk Box 25 Cap.....£2.99
Disk Box 50 Cap.....£4.99
Disk Box 100 Cap.....£6.99
Disk Box 120 Cap.....£7.99

"I would like to thank you for your fast and efficient service. I shall, without doubt, recommend you to all my colleagues"

P. Gallup-Ryde

PHOENIX PRODUCTS

- MOUSE/JOYSTICK SWITCH.....£13.99**
Don't damage your Amiga's ports! This device saves wear and tear makes switchover FAST, and does NOT require power unlike many others.
- COMPUTER/VIDEO SCART SWITCH.....£19.99**
Flip between Video/computer signals at the push of a button.

AMIGA MUSIC

Attention all you music lovers! Phoenix have put together an unbeatable music deal for you this summer.

MUSIC-X Jnr.....only £15.00

When purchasing either a Phoenix Stereo Sampler or Pro Midi 2 Interface
Please Note: this is a limited offer only while stocks last!

- STEREO SAMPLER.....£34.99**
Combines ease of use with state of the art analogue to digital conversion technology (inc. FREE sample editing software + audio lead)
- PRO-MIDI 2 INTERFACE.....£24.99**
This fully featured professional quality midi interface is very flexible giving semi-patch bay facilities. It has five ports in, out, thru and two switchable out/thru. (inc. FREE midi lead)
- GVP DIGITAL SOUND STUDIO.....£54.99**
High quality sound sampler for all Amiga Computers
Amiga Music Made Easy-Only from Phoenix!

SOFTWARE

- WORD PROCESSING / DTP**
- Excellence V3.....£89.99
Interword.....£29.99
Pagestream V2.2.....£126.99
Pagestream Front pack 1.....£44.99
Page Setter 2.....£46.99
Pen Pal.....£57.99
Professional Page V2.X.....£179.99
Prowrite V3.X.....£57.99
Quickwrite.....£36.99
Scribble Platinum.....£35.99
Transwrite.....£29.99
Gold Disc Office.....£59.99
Wordworth.....£79.99
Professional Draw 3.....£103.99
Xcad 2000.....£99.99
Xcad 3000.....£269.99
Hot Links.....£52.99
Platinum Works.....£64.99
- UTILITIES**
- Cross Dos.....£22.99
Diskmaster 2.....£43.99
Dos 2 Dos.....£29.99
Opus Directory.....£29.99
Xcopy.....£36.99
Power Windows.....£49.99
Quarter Back.....£45.99
Quarter Back Tools VS.....£49.99

- DATABASE**
- Superbase Pro 4.....£164.99
Superbase Pers 2.....£61.99
- VIDEO PRODUCTION/TITLING**
- Big Alternative Scroller.....£35.99
Broadcast Titler 2.....£179.99
Font Pack 1 for Broadcast Titler 2.....£88.99
Font Enhancer for Broadcast Titler 2.....£88.99
Pro Video Post.....£168.99
TV Show Pro.....£51.99
TV Text Pro.....£84.99

- FRACTAL AND SPECIAL FX**
- Alter Image F/X.....£97.99
Deluxe Paint 4.....£63.99
Deluxe Photo Lab.....£51.99
Deluxe Video 3.....£71.99
Image Finder.....£44.99
Pixmate.....£43.99
Scenery Animator.....£62.99
Vista.....£43.99
Pro Vista.....£71.99

- ANIMATION**
- Amos.....£36.99
Amos Compiler.....£21.99
Amos 3D.....£25.99
Easy Amos.....£22.99
Animagic.....£57.99
Deluxe Paint 4 Deluxe Video 3.....£71.99
Director V2.....£71.99
Imagine.....£199.99
Map master for Imagine.....£59.99
Presentation Master.....£169.99
Surface Master for Imagine.....£29.99
Sculpt Animate 4D.....£282.99
Showmaker.....£142.99
X-Cad 2000.....£99.99
X-Cad 3000.....£269.99
Video Director.....£107.99

- PRESENTATION & SLIDE SHOW**
- Amigavision.....£88.99
Art Department Pro V*.1.....£143.99
Art Department Pro Conv. Kit.....£57.99
Can Do It V.I.G.....£94.99
Hyper Book.....£44.99
- ACCOUNTING**
- Arena Accounts.....£83.99
Home Accounts 2.....£39.99
System 3.....£43.99
Cashbook Combo.....£57.99

MICE & TRACKBALLS

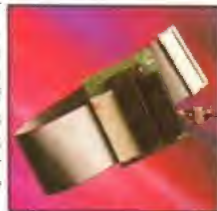
- NAKSHA**
- Upgrade Mouse.....£24.99
Roctec Mouse.....£13.99
Squik Mouse.....£13.99
- GOLDEN IMAGE**
- Crystal Trackball.....£37.99
Fanciful two colour shining trackball-who can resist?
- Infrared-Cordless-Mouse.....£47.99
(Rechargeable)
- Optical Pen Mouse.....£POA
Mouse Mats.....£3.99

SCANNERS

- Powerful image processing tools for the office or the home environment.
- PANDAAL**
- Daatascan.....£109.99
- POWER-**
- Features:100-400 dpi • 64-Greyscales
Thrupurt to printer • FREE Editing software.
- Power Scanner v2.0.....£94.99
Power Scanner Colour.....£234.99
- GOLDEN IMAGE-Hand Scanner Series**
- Features: 400 dpi • 256-Greyscale • Touch up and Merge it software.
- AlfaScan.....£124.99
AlfaScan Plus.....£149.99
AlfaScan T (inc. OCR Software).....£249.99
AlfaScan OCR (inc. OCR Software).....£279.99

PHOENIX Kickstart ROM Sharer

Because some older games and business software will not run on the new Kickstart 2.04 ROM. PHOENIX have designed a sharer for both ROM chip sets. Switchable between 1.3 and 2.04 you can get all the benefits of the latest A500 Plus without the drawback of losing all your old software. Fits any Amiga 500/1500/2000.



- *Kickstart ROM Sharer.....£24.99
*Kickstart Rev 3/5 ROM Sharer.....£27.99
*Keyboard Switchable ROM Sharer.....£34.99
Kickstart 1.3 ROM.....£29.99
Kickstart 2.04 ROM.....£34.99
*(ROM Chips not included)

"Dear Sir, I am Writing to thank your company for the help shown to me recently, when I purchased the Phoenix ROM Sharer"

R. W. Cooke- Milton Keynes

AMIGA RELEASE 2

Now Only..

£79.99

The popular upgrade kit for 12/13 owners from Commodore is in stock and selling fast!

TRAIL BLAZERS-WHAT'S NEW IN AUGUST 1992!

In this month's new "TRAIL BLAZERS" section we spotlight some of the best new products and peripherals currently available for the Amiga.

ROMBO VIDI AMIGA 12.....£94.95
(for details see below/opposite)

PHOENIX 1Mb A600 UPGRADE

Simply the Best!

£44.99

EPSON GT-6000 FLAT BED FULL COLOUR SCANNER-Plug into Amiga parallel port scan documents as a resolution of up to 600 dots per inch in up to 16 million colours

Phoenix Price.....£989.00

ASDG - SOFTWARE-Scanning controller software comes in two forms, integrated into art development as a new module or used as a stand-alone programme-Save scans direct to disk-

Phoenix Price.....£109.99

ROCKEY BY ROCTEC-The new chroma key unit - used in conjunction with a Genlock - allows you to superimpose live video over graphics or video-substitute the brightness portion of a video source with a keyed image-Embed live video in graphics!

Phoenix Price.....£299.99

LEADS & CABLES

- Midi-Midi 2m.....£3.99
Midi-Midi 3m.....£4.99
Midi-Midi 5m.....£5.99
Amiga-Scart.....£9.99
*Amiga-RGB.....£9.99
Joystick ext.....£4.99
Joystick splitter.....£4.99
*Serial/Modem.....£9.99
Printer 1.8m.....£5.99
Printer 2.0m HQ.....£7.99

*Call technical for complete listing

DISKS

Don't confuse these quality disks with others currently available. 3.5" 100% certified error free 70% clip. All disks include FREE high quality Phoenix labels.

- 10.....£4.99 200.....£72.99
25.....£12.99 500.....£174.99
50.....£22.99 750.....£259.99
100.....£39.99 1000.....£339.99

TDK Branded disks- High performance media from the experts-box 10 with labels.

- 10.....£5.99 100.....£52.99
50.....£26.99 500.....£189.99
- 1000 Disk Labels.....£9.99

CALL OUR ORDER HOTLINE NOW!

- Free Fast UK delivery
- Next-day Courier only £4.50
- Same-day despatch on Credit card orders/bankers draft/building society cheque/Postal orders
- All prices include VAT

AMERICAN EXPRESS WELCOME

PHOENIX - MAIL ORDER AT IT'S BEST!

Tel: 0532 311932

FCC DISTRIBUTION, UNIT 19, ARMLEY PARK COURT, STANNINGLEY ROAD, LEEDS LS12 2AE
Please make cheques payable to F.C.C. Distribution Ltd. Allow 5 working days for cheque clearance. Call our despatch line for details on our full range of delivery options both in the UK and overseas. BFPO welcome. OPENING TIMES: Mon-Sat 9.00am-6.00pm E.O.E.

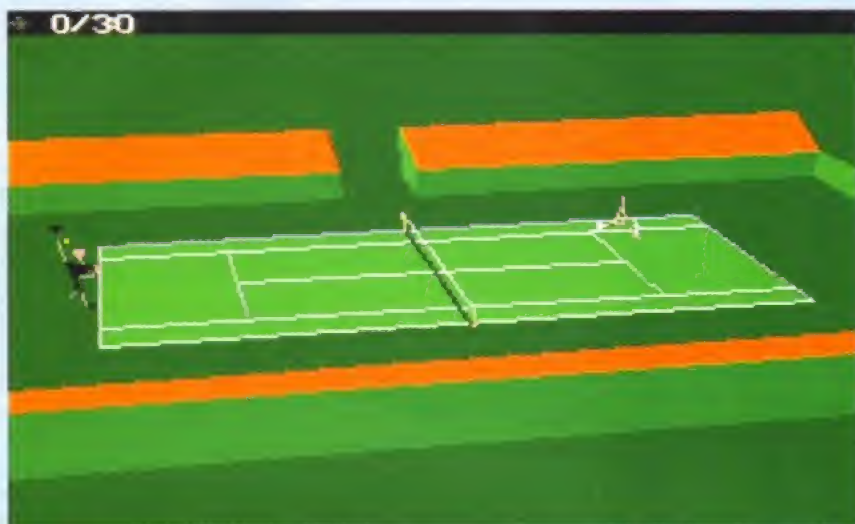




Congrats on turning to this page. You may have won a timeshare in Ealing. All you have to do is read on and send **James Leach** £20. Then, on 3 August, the flat will be yours for an hour.

Cheap 'n' Cheerful

AMIGA FORMAT



Here we demonstrate the self-service tennis ball. It throws itself in the air, bounces automatically off the racket and flies into any unprotected part of your opponent's anatomy.

International 3D Tennis

GBH ■ £7.99

Wimbledon finished ages ago. The dishy bloke won, and now it's all forgotten. It's probably raining outside right now, too (go and look). So who wants a tennis game? Well for £7.99 you might. This one has a certain realism that points to the fact that the programmers concentrated very hard on how tennis players actually move before writing the code. So the little wire-frame fellows actually behave very accurately as they rush around.

But this accuracy can get slightly annoying. The players have such momentum that it's tough to whack them around the court with anything like the speed you're after. You're supposed to play tactically, and be aware that you've got to get into position early, but I wanted the men to move like lightning. This is my 'fault' though (oh - a tennis gag). The only real criticism is that the court (and everything on it) is a little small.

But *International 3D Tennis* is smooth and playable, once you've mastered the controls and weight. Two-player mode is best, and by the end of a tough rally, you really have to work because there's no way you're going to let your chum from over the road win.

Verdict **83%**

96

SEPTEMBER 1992



Rijkaard, Van Basten, and Gullit all rush towards the goal. But England captain Charles 'Charlie' Charles wins back the ball as if it was stuck to his foot.

Emlyn Hughes International Soccer

Touchdown ■ £9.99

On dark, moonless nights, they say that the ghost of Emlyn Hughes still treads the pitch at Elland Road. Dead weird, that, because he used to play at Anfield. Anyway, this game isn't at all like his stupid triv' quiz game. No, in fact it's rather good. It's a sideways-looker, with all the moves and most of the speed that you and I have come to expect of footie games (experts that we are).

There are loads of international teams, all with different skill levels, and the control is easier than *Kick Off*. This makes it more fun initially, but might lessen its long-term playability. Graphics are OK and the players make reasonable attempts to behave like simulations of proper human beings (ie they do get into pass-receiving positions when they've got the chance). It's not quite as good as *Kick Off*, but fans of the genre (I love saying that) might be glad to have it because it is another playable football game.

Verdict **77%**



Seymour constantly finds that being a blob of radioactive jelly isn't enough to get him into Hollywood. And the chances of a producer with a big part wanting to sleep with him look decidedly minimal.

Seymour goes to Hollywood

CodeMasters ■ £7.99

Remember that beautifully written review of *The Cartoon Collection* in C 'n' C last month? Yes, one of the games featured on that compilation has cropped up once more. Seymour is the name, and being goofy and 'amusing' is the game.

You move the albino mutant lardball around what purports to be Hollywood, trying to solve various puzzles in turn. They aren't that difficult, and, as you'll note from the bright, cheerful graphics (in which everything has thin black lines around it), the game is a bit of fun aimed at the pretty-damn young with a few sovs burning holes in their pockets. There's a large playing area, and even young players won't remain stumped by the puzzles for long (well, total babies might), so there's a fair bit of entertainment value here.

But hold fast for a mo. *The Cartoon Collection* is £24.99, with five games included (all pretty good quality) and this is £7.99 on its own. If you want it, scrounge the extra dosh and buy the compilation. It's an economy of scale, you see. JM Keynes was absolutely right.

Verdict **77%**



"Er, hello! Is anyone in? Jane? It's just that the garage door was open and I couldn't help but come in and admire your *beauuutiful* new spacecraft. French, is it? Oh, Italian. Très chic, dearie."

BSS Jane Seymour

GBH ■ £7.99

Move around a sci-fi world using the tried-and-trusted *Eye of the Beholder* method. Shoot things, pick up other things and try to mend various spaceships. But before you do get stuck into Ms Seymour (stop sniggering – it's the spaceship's name), you've got to ask yourself whether you're enough of a fan to stay with it. There are 4,000 rooms, umpteen intergalactic vessels to tinker with and millions of microscopic mouse movements in order to do what you want to do.

It's pretty, though it's lacking in atmosphere, and your brain won't have to work too hard once you've sorted out what's going on. But it doesn't have the edge which would make it unputdownable (if you pick up your Amiga when playing games). Remember that for £8 you're getting a large sci-fi game, with bad-dies, weapons and more.

Verdict 75%



My gran used to say to me: "A day without sunshine is night." And, playing *Sleeping Gods Lie* years later, I suddenly understood. The daft old bat was as senile as a goat.

Sleeping Gods Lie

Touchdown ■ £9.99

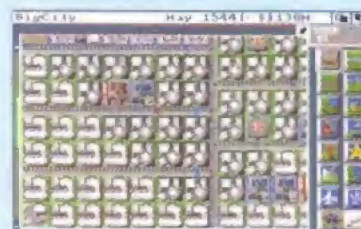
Aha! Two pounds more than is the norm. What kind of fiendish marketing ploy is this? Anyway, *Sleeping Gods Lie* is a dreadful name for a game, or anything else (apart from a combined church and discount bed centre). It's pure fantasy time once more, as you move your mouse around the screen and watch the view scroll (rather smoothly) around to follow the cursor. You wander in this curious manner along tracks, across deserts and through the lingerie departments of cities.

Various characters crop up, providing you with a little interest, and there are a multitude of doors to open, cupboards to examine and pantries to explore. It's like a speeded-up trip around a *3D Construction Kit* world. The movement system does allow you a fair degree of flexibility, though, and there aren't many rules about where you can and can't go. So if you do buy it, bung away the manual unread and try and work out what's going on without it by wandering everywhere. On second thoughts, don't be so sad.

Verdict 60%

Sim City Module Architecture 1 - Future Cities

Action Sixteen ■ £7.99



Life on the moon is boring. There's no atmos- (Don't use that gag - Ed.)

OK, so you've got a thriving metropolis. Bridges, fire stations and an abundance of parkland nestles cosily with rapid transport systems and expensive waterfront developments and leaky nuclear power plants.

All in all, you've got the hang of *Sim City*. And it's only just possible that you're getting slightly bored with it. After all, you've seen one airport and sports sta-

dium and you've seen them all. But that's where these new architecture modules come in. Just load 'em up and instantly you've got a whole new city to look at. Every unit in it is ultimately the same, so there are police stations, power stations and all the other gubbins, but the names have been changed, and of course it all looks vastly different.

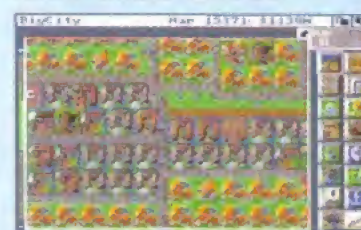
The Future Cities include all sorts of excellent weirdness for you to explore. There's Gotham City (which does indeed look a bit like the new sets in the *Batman Returns* film), there's a Moonbase (which looks like a sort of base on the moon) and there's a cyberpunk Manhattan.

All in all, the future cities are well thought out and look like they could take the style of the game well into the next century, as they say in advertising land.

Verdict 78%

Sim City Module Architecture 2 - Ancient Cities

Action Sixteen ■ £7.99



"Your lordship! The peasants are revolt-ing." (Forget this poor joke too - Ed.)

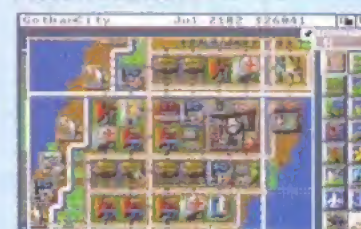
No, no. You don't want any of that futuristic rubbish. Get your head round some historical settlements with the *Ancient Cities* module. You can develop the Wild West, with its tumbleweeds, earthquakes and, er, tumbling weeds. Or what about medieval Europe? Build houses of wood, pack them together, and chuck a Swan Vesta in the middle of it. Minutes of fun are guaranteed.

The thing is, none of the architecture modules actually affect the game-play at all. A power station in the original game becomes a water wheel in the medieval module and an electro-gravity system in the moonbase. But the power unit performs exactly the same in each, so once you can beat *Sim City*, you can beat it with any of the modules loaded as well.

Verdict 78%

Sim City Terrain Editor

Action Sixteen ■ £7.99



Before your cities spring up, why not alter the very earth on which they sit?

Ever wondered how those wacky riverside landscapes are produced in *Sim City*? Ever lain awake at night, puzzling over the creation of those thin little islands that almost reach the mainland, but not quite?

No, neither have I. But there have been occasions when I've wanted to design my own maps. I'd go into fits of swearing because a terrain editor wasn't

available. That is until now. The *Sim City Terrain Editor* is a simple program which gives you a blank desert and the option to bung trees, rivers and channels on to it. Once you've created your Utopic paradisiacal Eden, you can save it, load it into the game proper and cover it with smog-belching factories and mass-transport systems. Of course, it's possible to load in the different architecture modules as well.

Overall, this is a minor program which won't change your life. But if you're a big *Sim City* fan, you could have some fun.

Verdict 75%

NEW PROMOTION
8833 Mk II Monitor Genuine UK
Model Now with Turbo Challenge II
Promotion. Only **£199** inc VAT



CLEARANCE SALE
EX DEMO A590's **£199**
EX DEMO A500's **£199**

A600
IS EXPECTED
TO DROP IN PRICE
PHONE FOR CURRENT PRICE

DIAMOND

COMPUTER SYSTEMS LTD

DIAMOND'S SALE HAS BEEN EXTENDED TO MATCH HUGE DEMAND

1Mb RAM  **1Mb RAM**

PACK

THE FANTASTIC NEW
AMIGA 600

AS SEEN IN THE COMPUTER PRESS
EVERYWHERE

only £299.00 inc VAT
Or with 8833 Mk II Monitor
+ Turbo Challenge II
Includes connecting lead
only £499.00 inc VAT
WITH FREE HOME MAINTENANCE

Free Deluxe Paint III + game
while stocks last
Add £49.95 for extra 1Mb RAM
we cannot be beaten
on price

LIMITED STOCK

1Mb RAM  **1Mb RAM**

PACK

THE EVEN MORE FANTASTIC
NEW AMIGA 600 HD
WITH 20Mb HARD DISK

AS SEEN IN THE COMPUTER PRESS
EVERYWHERE

only £399.95 inc VAT
Or with 8833 Mk II Monitor
+ Turbo Challenge II
Includes connecting lead
only £599.95 inc VAT
WITH FREE HOME MAINTENANCE
Add £49.95 for 1Mb extra RAM

we cannot be beaten
on price
40Mb Hard Disk Version
Add **£149.95**

LIMITED STOCK

1Mb RAM  **1Mb RAM**

PACK

THE ALL NEW EVERYTHING BUT THE
KITCHEN SINK PACK
NEW AMIGA 600
+ 10 GAMES

Line Of Fire, CarVip, Teenage Mutant Hero Turtles,
Cadaver, Corporation, Shufflepuck Café, Emotion,
Powerplay, Grand Monster Slam,
Tower Of Babel
+ All AMIGA standard features, Mouse etc.

Mousemat, Tailormade Dust Cover, Joystick, 10x5
disks, 1 disk storage box
WITH FREE HOME MAINTENANCE

only £349 inc VAT
Or with 8833 Mk II Monitor
+ Turbo Challenge II
only £549 inc VAT
we cannot be beaten
on price

LIMITED STOCK

1Mb RAM  **1Mb RAM**

PACK

600 WORD PRO PACK
AMIGA 600 PLUS

With the NEW
AMIGA 600 H/D with 20Mb hard disk
AND 9Pin Seikosha Printer
+ Transwrite Word Processor
+ All AMIGA standard features, Mouse etc.

WITH FREE HOME MAINTENANCE
only £549.00 inc VAT
Or with 8833 Mk II Monitor
+ Turbo Challenge II
only £745 inc VAT
ADD £75.00 FOR COLOUR PRINTER
ADD £80.00 FOR
QUALITY 24 PIN PRINTER
we cannot be beaten
on price

LIMITED STOCK

**WHY
NOT
GET
YOURSELF
A REAL
COMPUTER?**



AMSTRAD FAMILY PACK

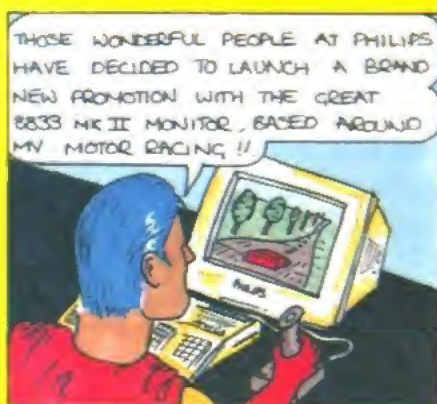
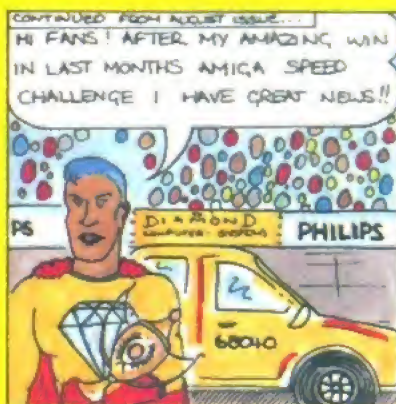
A real 386SX PC running at 20MHz, 4Mb RAM expandable to 16Mb
Large 80Mb Hard Disk, 1.44Mb Floppy (Also reads 720K Disks),
10" Very high resolution colour screen, Keyboard & Mouse, MS DOS & Windows 3, Amstrad
Manager Software, Amstrad Counterpoint Software, Ad Lib Compatible Sound Card
2 Speakers, Joystick, & 3 Top Games

only £799.95 inc VAT

NEW AMSTRAD BUSINESS PACK

As above but with the famous Microsoft Works Software including Spreadsheet, Database &
Wordprocessing PLUS the Canon BJ10EX super quiet inkjet printer
only £1056.33 inc VAT

The NEW Adventures Of CAPTAIN DIAMOND



**HITACHI
CCTV CAMERA
ONLY 129.95**

**WANT A 1500
With Workbench 2.04?
GOT A 500
SWAP IT FOR ONLY £399.95
ALL PRICES INCLUDE VAT**



**Checkout the price on
PROGRESSIVE PERIPHERALS Products!
Nobody in the UNIVERSE
Can touch Captain Diamond
On Price!**

CAPTAIN DIAMOND'S 1500 & 3000 CENTRE

A1500 NEW VERSION

All Diamond's 1500's come with Workbench 2.04 and are also supplied with:- Deluxe Paint III, Home Accounts, The Works (word processor, spreadsheet and database), 3 Games (Puzznic, Toki & Elf), and a book (Get The Best Out Of Your Amiga)

A1500 on its own	£529
with GVP 8Mb bare board + 52Mb Quantum	£819
with 8Mb 0k RAM board + 105Mb Quantum	£978
A1500+8833	£729
A1500 Deluxe (Includes 1.3 ROM/2.04 ROM & Switcher)	£589

Out Of Memory?

Try our 8Mb RAM Board for your A1500 or 2000
Aries Board 0Mb **£89**
For each 2Mb RAM add **£69**

AMIGA 3000

The NEW Commodore
AMIGA 3000
25MHz processor, 100 Mb hard
disk, 4Mb Fast RAM, 2Mb RAM.
£1995.00 INC VAT
Phone for PX pricing

GENLOCKS

Rocgen	£89.95
Rocgen +	£124.95
Rendale 8802	£119.95
G2	£575.00
G2+	£999.00
Video Pilot	£999.00

**New Philips Editing System.
Only £399.00**

A500 ACCESSORIES

ROCHARD 40Mb \$299.00

GVP SERIES 2 HARD DISKS

52Mb ONLY	£345.00
105Mb ONLY	£449.00

Perfectly matched in colour + style to the AMIGA 500p. 11ms access drive. 1" high drive by Quantum. Room for up to 8Mb of RAM expansion. Cut Off switch for games Expansion 'Mini Slot'. External SCSI port Dedicated PSU and fan. 2 years free warranty.
Add \$65.00 per extra 2Mb RAM
ROCHARD DRIVES ALWAYS IN STOCK

52Mb		120Mb	
0k	£349.00	0k	£459.00
2Mb	£419.00	2Mb	£529.00
4Mb	£489.00	4Mb	£599.00
8Mb	£629.00	8Mb	£739.00

286 Emulator	£245
240Mb	£795

A530 Accelerator

- ✓ 40MHz 68030EC processor.
- ✓ Hi-speed SCSI interface with 52, 120 or 240Mb hard drive.
- ✓ 1Mb populated Accommodates up to maximum 8Mb of 32-bit wide RAM.
- ✓ Optional 68882 Maths co-processor
- ✓ Optional PC-AT emulation

Accelerator + HD + RAM Upgrade

Plugging a GVP A530 Accelerator onto your A500 or A500 Plus will boost its speed from 7.14MHz to a blistering 40MHz. The A530 will be available with either 52, 120 or 240Mb hard drive and can be upgraded to include an additional maths co-processor, 8Mb of 32-bit wide FAST RAM and much more through GVP's unique "mini-slot"

40MHz 1Mb RAM/52Mb HD	£749
40MHz 1Mb RAM/120Mb HD	£899
40MHz 1Mb RAM/240Mb HD	£1099

Monitors & TV's

6833Mk II + Turbo Challenge II promotion	\$199
Panasonic 1381 multisync	\$275
Philips TV/Monitor	\$249
Philips 3350 51" remote control	\$349.99
Philips 60cm matchline	
100Hz widescreen	\$2499.99
New Philips Designer cube TV/Monitor	\$279
Goldstar TV/Monitor	\$159
Philips 14" SVGA monitor, suitable for use with A3000 or 1500 with flicker fixer	\$229.95

Please add \$9.95 for connecting lead

NEW CDI FROM PHILIPS \$599

IMPACT II HC8

- ✓ Factory installed hard drives
 - ✓ 52, 120, 240 & 420Mb options
 - ✓ On-board 8Mb mem. sockets
 - ✓ Add up to 6 SCSI devices
 - ✓ Easy To Install SIMMS
- These are the equivalent of the HD8+ hard drive, but for the 1500 & 2000 models. Not only are they some of the fastest hard drives available but they also incorporate an unpopulated 8Mb RAM expansion board.

52Mb	\$289
120Mb	\$409
240Mb	\$639
420Mb	\$1169

SYQUEST44/88Mb

- ✓ 44 or 88Mb removable media
 - ✓ 20ms access time
 - ✓ Can be supplied with or without GVP HC8 controller
 - ✓ External case available for A500 or A3000 users
- Each drive comes complete with one cartridge. Syquest drives give complete storage flexibility, offering a quick and easy way to add extra storage to your system.

44Mb bare	\$445
44Mb + HC8	\$545
88Mb bare	\$595
88Mb + HC8	\$695

G-FORCE 30-25/40/50

- ✓ 68030EC/68030EC/68030 processor
 - ✓ 25/40/50MHz clock speeds
 - ✓ 68882 Maths co-processor
 - ✓ Expands to 13/16/16Mb 32-bit RAM
 - ✓ 32-bit SCSI controller
- These fast 68030EC/68030 accelerators with memory upgrade and SCSI interface board offer unbeatable speed.

25MHz/1Mb	\$595
40MHz/4Mb	\$995
50MHz/4Mb	\$1395

IMPACT VISION 24

- ✓ 768 x 580 PAL resolution
 - ✓ Supports composite video S-VHS & RGB signals
 - ✓ Broadcast quality Genlock
 - ✓ Now with RGB splitter
- This is the very latest 24-bit Professional Video Adaptor. It features 16.7million colours on screen of once, built-in genlock, flicker fixer, frame buffer, frame grabber, and digital keyer. It comes with Config IV24 3D, Scala IV24 plus Macro Paint. A1500/2000 requires additional adaptor @ **\$49.95**

ONLY \$1695

COMPONENT SHOP

HARD DISKS		
52Mb IDE		\$179.95
105Mb SCSI		\$279.95

2 year warranty
SYQUEST
Removable cartridge 44Mb 28ms **\$299.00**
CONTROLLER for above odd **\$69.95**

ROM Switcher Now Available

1.3 2.04 ROM Switcher	\$9.95
1.3 ROM available @	\$29.95
2.04 ROM available @	\$29.95

• PX Offer on page 1. Must be in good working condition with 1Mb RAM. Judgement of condition subject to managers discretion

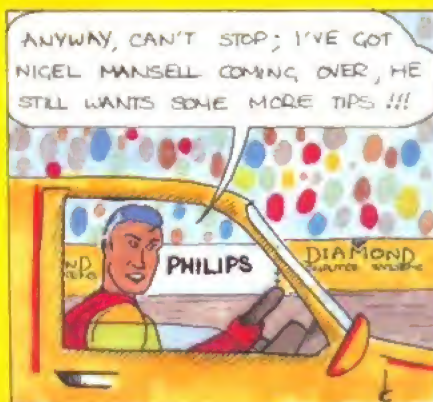
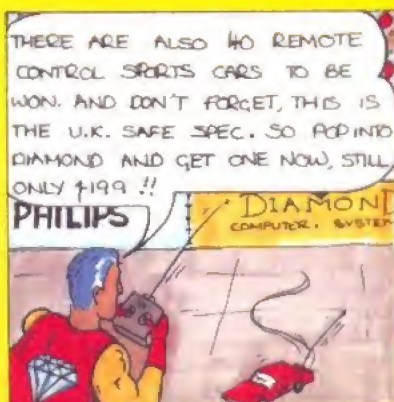
CAPTAIN'S CHIP SHOP

4K256K DRAMS
For A590 etc **\$3.50**
1X1MB DRAMS For Bus/Supra etc **\$3.50**
16MB SIMMS **\$34.99**
For NEXUS/GVP/Rochard etc **\$159.95**
48MB SIMMS For GVP/NEXUS etc **\$14.95**
CIA CHIPS **\$29.95**
1.3 ROM

PROGRESSIVE PERIPHERALS
25MHz Motorola 68040 Built-in Maths co-processor. Software compatible with 68000 chips. Expandable to 32Mb RAM. Available with 0, 4, 8, 16 & 32 RAM. We are not allowed to print our prices or we'll get sued. For LOW prices contact your local shop.

AVIDEO 24

24-bit graphics for the A500. 768x580 quality resolution. 16 million colour frame buffer. Small easy to fit circuit board. Fully upgradeable. Runs on standard A500 (1Mb chip RAM). Comes with 24-bit paint package (TV Paint). Allows picture in picture **\$589**
REMBRANDT
24 bit colour. 16million colours. Fits both A1500/2000 **\$1490**
DISK DRIVES
AMIGA Internal **\$39.95**
Slimline **\$49.95**
Ultra slim **\$64.95**
CDTV drive **\$64.95**
NEW Rocite Slimline with no click noise & virus protection on track 0. **\$59.95**



Captain Diamond has asked me to personally thank everyone who entered his competition last month, 846 in total, it's nice to know so many of you realise that some dealers are just after your money. So remember **YOU CAN'T BUY CHEAPER THAN DIAMOND**

	Obviously we are still not allowed to print the names of the dealers who cannot compete with the mighty Captain Diamond when it comes to the best possible price. (Prices taken from August Amiga Shopper)										Diamond Price
Canon BJ10EX	N/A	N/A	£244.99	£239	£259.99	£229	N/A	N/A	N/A	N/A	£205.56
HP Deskjet Colour	£575.00	N/A	£569.99	£539	N/A	£529	N/A	£559	N/A	£699	£515.82
New 8833Mk II + Turbo 2 game	As this promotion by Philips was based around Captain Diamond's amazing antics on the racing circuit obviously we have the new Christmas promotion before anybody else, hence they can't price it yet. As always Diamond are first again to bring you all the new products.										£199.95
RocLite Drive External with Anti Virus & No Click	IT'S FAST, IT'S FURIOUS, IT'S THE BEST THING TO HAPPEN TO AMIGA THIS YEAR AND IT'S ONLY AT DIAMOND										£59.95
10 Blank Disks	N/A	N/A	£4.99	N/A	£7.99	£7.50	£3.99	£9.95	N/A	N/A	£3.50
Amiga 600	N/A	£399.99	£359.99	N/A	£369.99	N/A	£364.95	£349.99	£379.95	£399	£299
Citizen 224 Colour	N/A	N/A	£244.99	£239	£249.99	£219	N/A	N/A	£229.95	£233.83	£217.37
Pen Pal Word Pro	N/A	£79.99	£53.99	£53	£54.99	N/A	N/A	N/A	£79.95	N/A	£39.95
GVP Series II 52Mb H/D	N/A	£379.95	£354.99	£349	£349.99	£359	N/A	N/A	£349.95	£379	£345

If you bought CDTV and are now living to regret it read on

"..Commodore made multimedia available to the masses with the Dynamic Total Vision (CDTV), but it looks set for dinosaur status in the light of Philips' impressive Compact Disc-Interactive (CD-I). Chris Cain's (Senior Staff Writer PCW) comparison of the two systems gave him the best hardware experience he's had for five years...."

Personal Computer World July 1992

Did you bet on black and it came up red?
 Did you buy Betamax when everybody bought VHS?
 Have you booked your summer holiday in Yugoslavia?
I bet you've got CDTV.

Well don't worry we won't take the micky anymore because you are not the only person who fell for all the hype, but don't panic, Captain Diamond as always is here to save the day. You can bring your old CDTV into any branch of Diamond until the end of September and we will give you a brand new all singing all dancing CD-I system for

only £399

Due to the excessive demand from last month's adverts for this great product Diamond have not only dropped the price but we have widened the offer to include Amiga 500's & 1500's. So come and see the experts and judge the two systems yourself before making a decision.

WE KNOW IF YOU WANT THE BEST BUY, CHOOSE CDi

MUSIC X
£44.95

P/X Your old 500
for a new Amiga 1500
with Workbench 2.04
for only £399.95
PENPAL £39.95



PART EXCHANGE EX DEMO
AMIGA 500 + 3 MONTH'S
WARRANTY, ONLY £199.95
EX DEMO A590'S FROM £199.95
WITH 2Mb RAM £249.95

DISK
ONLY
40P EACH

CAPTAIN DIAMOND'S PERIPHERALS PAGE

ALL PRICES INCLUDE VAT

APPLICATION	SOFTWARE
Graphics & General	
Advantage	Distant Suns 4.0
Anim Font 1 or 2 or 5	Fun School Series
Art Dept	French Mistress
Art Dept. Pro 2	GB Route Plus
Big Alternative Scroller	Mavis Beacon Typing
Broadcast Titrer 2	Micro Series
Colourburst	
Deluxe Paint IV	DTP & Wordprocessing
Digiview Media Station	Excellence 2
Disney Animation Stud	Gold Disk Video
Imagine 2	Kindwords
Mediastation	Pagesetter 2
Personal Finance Mgr	Pagestream 2.2
Personal Font Maker	Pen Pal
Pixel 3D	Personal Write
Presentation Master	Pro Page 3.0
Prodraw 3	Quickwrite
Professional Calc	Scribble
Pro Video Post	Transwrite
Real 3D Beginners	Wordsworth 1.1
Scenery Animation	Works Platinum
Spectra Colour	
TV Text	Development & Utilities
Video Director	AMOS or Easy AMOS
Vidi Amiga	AMOS 3D
Vidi Colour Solution	AMOS Compiler
Vistra Pro	Blitz Basic
	Can Do V1.6
Music & Sound	Cross Dos
AMAS 2	Dev Pac 3.0
Audio Engineer +2	Directory Opus
Audiomaster 4	Diskmaster
Audiflon 4	Hi Speed Pascal
Bars & Pipes Pro	Home Accounts 2
Deluxe Music const Set	Hyperbook
Dr T Copiest Apprentice	Lattice C V5.1 dev sys
Dr T KC5 Level II V3	Quarterback
Jam	Quarterback Tools
Music X 1.1	SAS C
Perfect Sound	Superback
Stereo Master	Superbase Pro 4
Sound Master	Superbase Pers 2
Techno Sound Turbo	X Copy
Educational	
Answer Back Jnr	
Answer Back Sr	
Answer Back Data Disks	
Arithmetic	
20th Century	
Spelling	
World Geography	
General Science	
Compedium 6	

DOT	MATRIX	PRINTERS
STAR LC20	£122.20	CITIZEN SWIFT 224
STAR LC 24/10	£158.62	CITIZEN SWIFT 224 COL
STAR LC 200 COL	£182.13	CITIZEN SWIFT 24E COL
STAR LC 24/200 COL	£255.30	CITIZEN SWIFT 24X
STAR XB 24 200 COL	£374.82	SEIKOSHA SP 1900+
STAR XB 24 250 COL	£445.32	NEW SEIKOSHA 24 PIN
CITIZEN 124/D	£179.77	OKI 380
CITIZEN SWIFT 9	£169.20	PANASONIC KXP 1123
CITIZEN SWIFT 9 COL	£175.07	NEW PANASONIC
CITIZEN SWIFT 9X	£233.82	2180 COLOUR PRINTER
		£199.95
INK	JET	PRINTERS
HP PAINTJET	£632.15	CANON BJ10EX
HP DESKJET	£334.87	CANON BJ300
HP DESKJET COL	£515.82	CANON BJ330
STAR SJ48	£205.62	CANON BJC800
		£1643.83
LASER		PRINTERS
OKi 400		£586.32
HP III P		£821.32
OKI LASER 800 0.5Mb		£999.92
OKI LASER 800 Dual bin 0.5Mb		£1199.67
OKI LASER 830 Postscript 2Mb		£1145.62
OKI LASER 840 Postscript 2Mb		£1526.32
GAMES		SOFTWARE
	TOP 10 TITLES	
Sensible Soccer	£15.59	CLUB MEMBER PRICE ONLY
Monkey Island II	£22.79	Why don't you join
Jaguar XJ220	£15.59	Captain Diamond's
Striker	£15.59	Discount Club and save a
Epic	£17.99	fortune on all your games
Myth	£15.59	Personal callers only
The Manager	£18.59	Normal saving off RRP
Championship Manager	£14.99	
Fire & Ice	£15.59	
Addams Family	£15.59	
		35%
		AMIGA BUDGET TITLES
		E-Motion, Dungeon Quest, Shufflepuck Cafe, Tower of Babel,
		Data Storm, Grand Monster Slam, Powerplay, Soccer, Kid Gloves,
		Predator 2, Carv-Up, Corporation, Cadaver, Line of Fire,
		Teenage Mutant Ninja Turtles, Back to the Future III, Gunship,
		Mike Reads Pop Quiz, Gazza II, Monty Pythons Flying Circus.
		Any 3 Budget titles for only £10, why stocks last

LET CAPTAIN DIAMOND PUT YOU IN THE CLUB FOR ONLY £10

DIAMOND SHOPS AROUND THE UK

232 Tottenham Ct Rd
London W1
Tel 071 580 4355
FAX 071 580 4399

1045 High Road
Chadwell Heath
Romford
Tel 081 597 8851
FAX 081 590 8959

144 Ferry Road
Edinburgh
Tel 031 554 3557
FAX 031 554 2115

443 Gloucester Rd
Bristol
Tel 0272 522044
FAX 0272 521738

1022 Stockport Rd
Manchester
Tel 061 257 3999
FAX 061 257 3997

406 Ashley Road
Poole Dorset
Tel 0202 716226
FAX 0202 716160

HEAD OFFICE
84 Lodge Road
Southampton
Tel 0703 232777
FAX 0703 232 679

UK CORPORATE SALES OFFICE
TEL 0703 333184
or 0703 336277
FAX 0703 232679
CONTACT SHARON,
DAWN/BARBARA
EDUCATION/
GOVERNMENT

LONDON CORPORATE SALES
Saran Duffy 071 5804355 Fax 071 580 4399

14 DAYS ADD 2%
30 DAYS ADD 5%

HOW TO ORDER

Simply telephone through your order, giving your Access or Visa card number, or send a cheque or postal order to your local dealer.
MAIL ORDER Phone: 071 580 4355. Prices include VAT unless otherwise stated.
Minimum Courier Service £10.00. (Corporate Sales, any order under £250 subject to £10.00 Admin charge) Allow 10 working days for cheque clearance. Bankers drafts clear same day. All prices are correct at time of going to press but may change without notice.

THE DIAMOND PRICE PLEDGE

If, whilst buying goods from us, you can show us a better price for the same goods in stock with one of our UK competitors then we will match that price.
Even if our prices have increased we will honour the price in this advertisement on items in stock as long as you bring this advert with you.
This pledge applies only to customers relying on this advertisement before the end of the month of publication. It does not apply to competitors prices offered in closing down or stock clearance sales.

PREMIERE



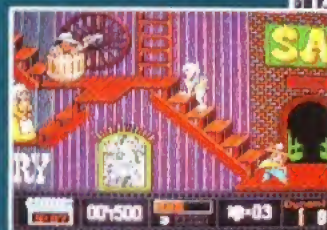
Première is an eight-way scrolling platform adventure played over six levels which are represented as different movie sets. A young film editor has had his film stolen from his cutting room the night before the film's premiere. Your task is to search through the six different movie sets ranging from black and white, science fiction and horror levels through to cartoon, western and fantasy sets to retrieve the stolen canisters.



Will you find the stolen film before the Premiere?



CORE
DESIGN LIMITED



SCREEN SHOTS TAKEN FROM
AMIGA VERSION

AVAILABLE ON COMMODORE
AMIGA (1 MEG ONLY)



Tradewinds House, 69/71A Ashbourne Road, Derby, DE3 3FS. Telephone (0332) 297797. Facsimile (0332) 381511

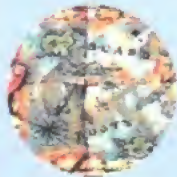
Chart busters

Tish and pish to your old games and dusty compilations! What we have here are the very latest chart-topping hits, busted wide open so you can go racing through them in seconds.



Epic

Don't buy it. It's a really, really awful game. No, we don't really mean that. What we mean is, try typing the following messages in for a bit of a leg up: AURIGA, CEPHEUS, APUS, MUSCA, PYXIS, CETUS, FORNAX, CAELUM, and CORVUS. And the Enter key has a few uses too: refuel, repair shields, and boost your weapons up to massive 99 shots. Handy on level five, this is!



The Secret of Monkey Island 2

LucasFilm's superb adventure gets the full treatment in this month's Game Busters (well, it's almost full, anyway). Check out the first half of the full solution on these very pages. We'll bring you the final bit when you've had time to mess around with that lot, OK? These things take time, you know.



Project X

Not a lot of people know this, but there's a secret stage at the end of the first level of Team 17's excellent blaster. Well, if everybody knew it wouldn't be a secret. Just to blow the whole mystery wide open, here's where to find it: when you get to the first level guardian, fly between its jaws and into its middle. Once you're through, you'll find some more baddies (life's not all roses), but if you kill them all, you get three extra lives.



Fire and Ice

What an awesome platformer this is - one of Andy Braybrook's best, we reckon. If you're having trouble just staying alive, try pressing the left mouse button on the title screen. This simple act can give you infinite lives, a quality which can make a huge difference to your everyday, hum-drum platform-leaping existence.



Jaguar XJ220

To get a bit of extra speed on the racetrack, you need to do a bit of work on the music selection screen. Press the mode button on the CD player, and then click on the right side of the scan button. Finally click on the eject button. You should find that the whole game runs a lot faster, enabling you to do laps in a much shorter time than you could previously. Winning should be easy if you don't hit too many cars.

Game Busters

Don't let your favourite games get you down. Game-junkie **Maff Evans** and his amazing Game Busters are here to save the day with a giant-sized helping of solutions, cheats and pertinent pointers.

INTERLOCK

Amiga Format's brilliant Coverdisk game Interlock had many people hard at it into the early hours of the morning. But don't fret if you're stuck, use one of the passwords below.



All the codes for Amiga Format's Coverdisk game. It's almost too good to be true.

- | | |
|-------------|-------------|
| 2 leveltwo | 14 headache |
| 3 mainwood | 15 robotics |
| 4 mandarin | 16 tpaurage |
| 5 wivenhoe | 17 dinosaur |
| 6 garfield | 18 category |
| 7 startrek | 19 spaceman |
| 8 religion | 20 inspiral |
| 9 sunshine | 21 universe |
| 10 industry | 22 multivac |
| 11 floating | 23 boasting |
| 12 innuendo | 24 laxative |
| 13 sapphire | 25 language |

TMH Ellis
Solihull, West Midlands

JAMES POND

This is very similar to the Bobocod cheat - and it's equally easy to use and it's just as devastating.

Type in JUNKYARD on the title screen and it will flash. Start the game and press [RETURN] to activate the cheat. You're totally invulnerable, which is signified by a little fairy that follows you around at the start of every level. The following keys also enable you to skip levels.

Level Key	
3 Z	8 N
4 X	9 M
5 C	10 <
6 V	11 >
7 B	12 ?

6 on the numeric keypad returns you to level 1.

Press D once to kill baddies, and twice to open exits.

Stephen Passey
Tonbridge, Kent

PARASOL STARS

We had a secret room hint for *Rainbow Islands*' successor last month, but here's an even better cheat.

Type CYNIX during the game and press these keys to achieve the following effects.

C extra credits (very handy if you use the next one too much)

D die (it's best not to use this one too often)

X skip to the next level

B bonus screen

M get all three stars

T go the final stage

G kill all nasties

1-7 skip to that stage

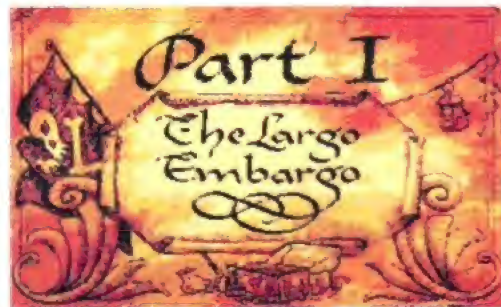
F1-F10 skip to that level

James Malcomson
Wigston, Leicester

Monkey Island 2 - LeChuck's Revenge

What an uproariously amusing adventure. But it's not much fun if you can't get off Scabb Island, is it? If the game's making an ape of you, or the whole monkey business is driving you nuts, here's half of the solution for the hard version to stop you going completely bananas. The lite version is generally considered to be far too easy, so you'll have to do it the hard way.

Part 1 The Largo Embargo



"Yo ho ho and a bottle of rum, if you ain't played Monkey you must be dumb!" (Old Sea Shanty.)

There are three main tasks to be completed on Scabb Island before you can get to any of the other islands.



She's a weirdo, she is, and no mistake. But she can help you show Largo what it's like to be on the sharp end.

1 Largo's embargo must be lifted by making a voodoo doll to scare him off the island. Go to the swamp and talk to the old voodoo lady who will tell you which ingredients are required.

2 Captain Dread's 'lucky eye' necklace must be replaced.



The rastafarian captain can't see a thing without his NHS visual aid. Perhaps you can help him see the light?



If you're ever going to get to deal with LeChuck, you're gonna have to stump up enough cash for your passage.

3 Guybrush must earn enough money to pay for his passage off the island.



It's the same old story: the new boy in town gets roughed up by the big bully in the playground.

OK. Here we are on Scabb Island. Pick up the shovel by the sign and walk over the bridge, where you'll be mugged by Largo. Never mind, easy come, easy go.



Look, if you're prepared to creep in the kitchen window, you must have the bottle to nick a flippin' knife.

Walk to the window, pick up the knife from the table and go back outside. Walk to the door on the left and pick up the pile of paper. When the cartographer rubs

his eyes, quickly grab his monocle - this is a replacement for Captain's Dread lost 'lucky eye'.



"Perhaps if the beer in this place was any good, people wouldn't keep gobbling it down the wall."

Walk to the hatch and talk to the bar keeper about his business. Wait for Largo to leave and then use the piece of paper on the glob of spit that's dripping down the wall. Tasty stuff I'm sure, but why do salivatory excretions feature so heavily in *Monkey Island 2*? Walk to the upper deck and go to the ship at the back. Pick up the bucket, but you'll have to persuade the men of low moral fibre to let you take it away. Do this by making them admit that it's not theirs. Walk to the path at the far right of the screen and go to the swamp. Use the bucket on the swamp and it will be filled with oodles of sloppy mud.



"Totally banal, totally ridiculous, I know, but every time I lift my hands over my head my trousers fall down."

Go back to the path, up to the cemetery and then to the graves on the hill, right at the back of the screen. When the screen changes to the one above, you know you're in the right place. Now for a Hammer Horror-style spot of exhumation. Use the shovel on the grave, pick up the bone (and live the experience), and then go back to Woodtick thoroughly shocked at your devilish behaviour. Some people have no respect for the dead.

Now you're on part 2, things start to get a bit tougher. Pick up the bag of parrot chow and walk to the door. Ask what your choices of destination are and set sail for Booty Island. Open the door to the left and walk through it, you're now in the Booty Boutique. Buy the 'Beware of parrot' sign, the saw and the ship's horn. Put the parrot chow on the hook to distract the bird's attention and then buy the mirror. Talk to the shopkeeper, who says he'll only part with the map piece in exchange for the figurehead from the Mad Monkey.



"This is Kate, and she's handy for a ride. Er, around the horn that is. I mean, no, er, treasure hunting on a ship."

Go out of the door, walk to the right, talk to the woman in the big hat and ask her for a leaflet. Walk to Stan's door, tell him you have to go and he'll give you a handkerchief. Then it's back to the boat and tell Dread to sail over to Phatt Island.



"Damn, my sexist humour has gotten me in a right old spot. Life's a bitch. No, it's the name of that dog. Life."

Pretty soon you'll find yourself incarcerated, but as Papillon knows, escaping is easy if you put your mind to it. Pick up the rock-hard mattress and the stick. Use the stick on the bone and then pick up the bone. Use the bone on Walt, pick up the small key and use it on the cell door. It's hardly *Escape from Alcatraz*, but it's still good for a laugh. Open the two envelopes and walk to the door.



"They've got one of these scale models in Canary Wharf, and the bulb in the top's knackered on that one, too."

Use Captain Kate's leaflet on the wanted poster and walk to the library. (Why doesn't Guybrush ever run anywhere?) Open the model lighthouse and take out the lens. Look at the card catalogue, open the draw

Continued overleaf



"The guide book says 'Two star, marine-decor with leaning pillars.' Nothing in 'ere about my alligator at all."

Walk to the ship on the far left and use the knife on the rope that tethers the alligator. When the innkeeper leaves, pick up the alligator's bowl to get the cheese squiggles (his favourite). Walk to the door at the back and go into Largo's room. Pick up the toupee, and use the bucket of mud on the door. Walk to the dressing screen and Largo will walk into the room, trigger the old bucket-of-mud-on-top-of-the-door trap, and he will dash off to the laundry to get his clothes cleaned.



Rummaging through other people's laundry is a hanging offence in some far-off lands. Here, it's compulsory.

Walk to the ship where you got the bucket (Mad Marty's) and wait for Largo to leave. Go back to his room and close the door. On the back of the door you'll find a laundry ticket, which you must take to Mad Marty's ship. Give the ticket to the laundry guy and you'll collect a fetching piece of Largo's attire.



Someday, after global warming and ozone depletion have taken their toll, all our transport will look like this.

Go back to the swamp and use the coffin. Row to the right until you come to a shack. Paddle over to the shack, pick up the string on the table and walk to the right. Ask the voodoo lady about business and continue the conversation about Largo. When she asks for the voodoo ingredients, give her the four objects - the spit, the toupee, the bones and the bra.

When you've got the voodoo doll, go back to Largo's room, quickly use the pins in the voodoo doll, and it's bye bye Largo. That's got rid of one rat, but now we've got to catch one. After talking to the voodoo lady again, go to the beach and pick up the stick. Wander back to Marty's laundry, open the box and use



If only, eh, if only. You know that sticking pins into a tiny little doll isn't going to work forever, don't you?

the stick on it. Use the string on the stick and use the cheese squiggles on the box. Walk to the other end of the string and wait for the rat to scurry under the box to munch on the tasty squiggles. Pull the string, open the box and pick up the rat. Squeamish and animal-loving readers should skip the next paragraph, but if you do, you won't be able to complete the game.



"Hang on. I wuz here earlier, weren't I? You lazy burrrr! You ain't moved an inch since I wuz but last 'ere."

Walk to the window and use the rat in the vichyssoise. (We interrupt these *Monkey Island 2* tips for an interesting fact: Marks and Spencers, well known lingerie and food retailer, found that sales of a certain kind of soup increased dramatically when it was renamed from 'Vichyssoise' to 'Potato and Leek'. Vive la difference, as they say in England.) Go back round to the hatch and ask the bar keeper about the stew, and take the job when the chef gets the sack. You'll get a month's wages, but you don't have to do a stroke of work for your money - a bit like working for *Amiga Format* really. (Not!) Walk to the window and go to the peninsula at the bottom-left-hand side of the island. Skank over to the houseboat, give the monocle to Captain Dread and charter a ship. You're now ready for the second stage of the adventure. Hurrah.

Part 2 The Four Map Pieces



Bet you can't work out what the hell you're supposed to do in the next part. Neither can we so we made it all up!

A single solitary objective in Part 2 - collect the four map pieces. No sooner said than you've got an incredibly convoluted set of puzzles on your hands - with a lot of island hopping to boot.

labelled C/D and find a card called Disasters. Look in the P/Q/R draw and pull out the recipes card. Go to the librarian and ask for 'The Joy of Hex', Great Shipwrecks of Our Century, and a third book of your choice. Don't worry about clocking up a massive overdue fine, you won't stick around long enough to pay it.



In a dark, lonely alley like this, the thing not to say is "It's a fix! It's a fix!" Unless you want your legs broken.

Leave the library and walk to the front alley. When the man leaves, follow him, open the slot on the door and ask for the next number. The answer is the number of fingers the man holds up first. Go back to the alley and ask the man for a game. Bet on the number you were told and then ask for the party invitation.



What kind of a place is this? Gurgling noises coming from upstairs and a bloke wearing a potty on his head.

Go to Governor Phatt's mansion and talk to the guard. When you get a chance, tell him there's a fire in the kitchen and walk to the stairs. Swap the third book you picked up at the library with the one on the bed and return to Dread's ship. Set sail for Scabb Island.



Knives are easy to nick in this game, but hammers are a darn sight more difficult. You gotta get him outta here!

When you get there, walk to the hatch and talk to the bar keeper. Ask for some grog and give him your library card. Buy all three drinks and use the yellow drink on the blue drink. Use the crazy straw on the green drink, use the banana on the metronome and pick up Jojo (It wasn't quite like this in *Cocktail* was it?) Go to the men of low moral fibre and saw off the guy's wooden leg. Walk to the door by the toll bridge and pick up the hammer and nails - the woodcutter is tending the poor chap who's leg you amputated. Back to Booty Island for more fun and frolics.



"Typical! In all the bars in all the towns in all the islands, I have to pick up a flippin' cross-dressing lizard."

Go to the costume shop, give the invitation to the shopkeeper and pick up the dress. Go to Stan's and ask about a used coffin. When he gets in one, close it and use the nails on it. Pick up the crypt key, which is on the board at the back of the shop, and then leave and walk to the path on the right.



"When the wind blows, the cradle will rock, and your gob will fly into that old geezer's smock." (Old Rhyme)

Join the spitting contest and use the ship's horn. When the spitmaster walks off, pick up the flags. Use the crazy straw on the green drink and walk to the fault line. You'll need to have two goes at spitting. The first doesn't really matter, but the second time, a winning spit should go something along the lines of "Swish Swish Hoooooook Chwwwwwk Prrroie".



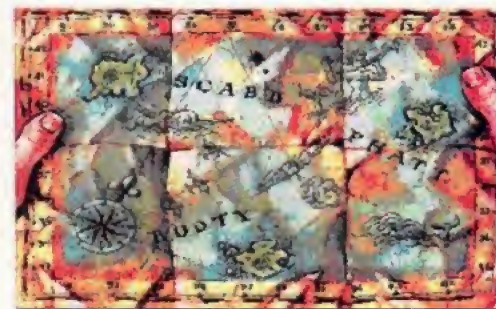
He's cracked, this bloke. He'll buy any old junk for five quid and expect to be able to flog it for 10. Pillock!

Go back to the antique shop, give the dealer your plaque and persuade him to buy it. You'll probably have to work your way through a load of old hogwash to make him want the junk you're offering. If your patter is good enough, he'll pay you 6,000 pieces o' eight. Leave the shop and look at the *Great Shipwrecks* book which you borrowed from the library. Remember the coordinates of the sunken galleon and then go and ask Captain Kate if you can charter a ship. Get her to sail to the coordinates given in the book and when you get there, dive over the side for the galleon. Pick up the monkey head and then pick up the anchor or the rope to get back up to the surface. Head for Booty Island, and when you get there, give the antique dealer the monkey head and claim the first piece of the map. Twisted, you reckon? You ain't seen nothing yet!



"There's only one thing worse than not being invited to a party, and that's being given the wrong address."

Walk to the path on the left and go to the governor's mansion. Give your invitation to the guard and put on your costume. Go into the mansion, pick up the map piece from the picture frame and try to leave. Try your hardest to persuade Elaine to come back to you, but you'll always fail, she'll throw the map piece out of the window and Garybrush will be kicked out. It's about time he was given a good seeing to. Go back upstairs and take the oar down from the wall. Go back outside and try to pick up the map piece, but it will only fly away. How sad.



Your key to freedom, and you still haven't earned it all yet. You didn't think it would be that easy, did you?

Walk over to the woods on the right and change clothes. Walk back to the mansion, pick up the dog and walk to the side of the house. Knock over the garbage can by picking it up, and quickly walk to the front. Walk to the side of the house on the other side, preferably before the chef catches you, and walk to the door. Pick up the fish and sail off to Phatt Island.

Walk to the pier and talk to the fisherman - it's his pole you're after. Accept his bet and give him the fish. When you've got the pole, go back to Booty Island, walk to the path on the left and go to the cliff. Walk to the edge of the cliff and use the fishing pole on the map.

And that's it. Two map pieces collected, you're half-way through *Part 2*, and you're roughly half-way through the whole adventure. Can you wait until next month to see the rest of the solution?

Solution by Simon Tindall of Gwent and J Stewart of Huddersfield



Join us again next month as we continue the saga that makes *Whicker's World* look positively parochial.

You deserve the best!

Now you can get the best... with PEN PAL!

A superb package, with immense power, to fulfil all your word processing requirements and... it includes a Database! It's all so easy to use, you probably won't need to refer to the extensive 250 page manual too often.

Whilst working, you can open up to four documents simultaneously (memory permitting), search and replace; cut, copy and paste; check your spelling with a 100,000+ word dictionary. You can import your favourite IFF/HAM graphics, from programs such as DPaint II or Clip Art files in various sizes and colours. You can automatically flow text around graphics in any Workbench compatible font (there are over 200 available styles), in different sizes and colours to suit your design... even as you type. All this from a word processor and... Much, Much, More!

As you can see, this is not just any ordinary word processor! Full Page View with position, edit and creation of graphic objects. Mail Merge using the built in database and forms designer. Creation of templates for complex reports, into which the database can be merged.

Operating with 32 fields per record, and 32,000 records per database with a fast sort of 1000 records in less than 5 seconds this is a *real* database.

Pen Pal requires an Amiga 500/1500/2000 or 3000 with a minimum of 1megabyte of available memory.

Pen Pal

When...you deserve the best!

£79.95



"...its handling of graphics is unsurpassed: Pen Pal is the only program I tested that will automatically wrap text around graphics..."

Amiga World...Jul. '90

"...without beating around the bush Pen Pal is very special..." - "There is little to fault Pen Pal and it deserves to do well."

Amiga Format...Dec '90

"...I am extremely pleased with your product especially the Graphic Capabilities within the Word Processor. Having the Database on the same disk has made PEN PAL the best program I have..."

D.S.B., Plumstead, LONDON

"...Please let me tell you how amazed I am at how EASY IT IS TO USE PEN PAL. The manuals supplied are very informative and very clear..."

P.S.S., Clifton, NOTTINGHAM

"...A most excellent piece of software..."

E.P.H., Strathclyde, SCOTLAND

Gordon Harwood Computers
New Street
Alfreton
Derbyshire
DE5 7BP

Dear Sirs,

Yello! I am writing this memo using "Pen Pal" normally I do not correspond with computer companies, but this time I had to make an exception.

I have been looking for a program that I could use to create colourful letters, useful forms, and addressing business graphics. I have purchased several Amiga word processors where the main draw came as to their capabilities. After using these programs, however, I found that the only word processor I ever began to like was Pen Pal.

Recently I saw your program "Pen Pal" on my dealer's shelf. According to the package I thought that I might finally be in luck. Although I purchased the program I was still not sure that it would do everything the package said it would do. As soon as I got home from the computer store I fired up the program on my computer. Without even reading the manual I was soon creating documents with colour and pictures. As you can see from this letter, I have become pretty good at your program's graphic capabilities.

One pleasant surprise I had was to discover that Pen Pal has a built in database manager. I find that I use this database almost as much as the word processor. I have entered my Christmas mailing list, video tape library, and cooking recipes in it. When I send Christmas cards this year I will use Pen Pal to print the mailing labels. I am designing my own Christmas cards in Pen Pal including some pictures I drew in a paint program. I plan to use Pen Pal's mail-merge feature to merge my mailing list names with the cards to make each one personal.

Thank you for making the program available.

Mr. Richard Goodwin

Man's (and Woman's) Best Friend

Pen Pal Order Line
0773 836781

Pen Pal is also available from good computer stores everywhere!

FINANCIAL REPORTING SYSTEM

Financial Report to Division Managers

	200,000	200,000	200,000	200,000
OPERATING EXPENSES				
Cost of Sales	200,000	200,000	200,000	200,000
Selling, general, and admin.	50,000	50,000	50,000	50,000
Research and Development	10,000	10,000	10,000	10,000
Income from operations	140,000	140,000	140,000	140,000
Income before taxes	140,000	140,000	140,000	140,000
Provision for taxes	28,000	28,000	28,000	28,000
Net Income	112,000	112,000	112,000	112,000
Net Income per share	112,000	112,000	112,000	112,000

... and they are better than expected!

In the first quarter of 1989 each division took advantage of strong economic conditions in their respective territories to meet sales figures well in excess of their goals.

Trade Distributors...

Precision Software
HBM HB MARKETING

Pen Pal is supplied into the UK through...
Gordon Harwood Computers New Street Alfreton Derbyshire DE5 7BP
Telephone: 0773 836781 Facsimile: 0773 831040

GORDON HARWOOD HARWOOD HARWOOD
Computers

TOTAL! The only magazine dedicated to Nintendo gamers, full of reviews and tips for the NES, Game Boy and Super NES!

Our logo. Proudly displayed on the shelves of all good Newsagents!

TOTAL!

100% FOR PLAYERS OF NINTENDO

- Game Boy
- NE
- Super NES

A totally independent mag from Future Publishing

July 1993 Issue 7 £1.95

GET YER WHIPS OUT!

We delve into the Castlevania saga on NES and SNES - read our reviews before you lash out!

Oh! Thick! Gimpy! I said funny costumes, ee, Andy? You all right? Uh.

It's not my fault! This flippin' thing's got a life of it's own! I nearly had my eye out just now!

Oh now look! You've got the end caught up! Maybe you should stick with the bazooka!

GAME BOY

Super Hunchback! The Addams Family, Centipede, Q*Bert

NES!

The Addams Family! Die Hard, Jackie Chan Kung Fu, Wizards And Warriors III, Hunt For Red October

SUPER NES!

Sim City! Super Off Road, The Rocketeer

More Nintendo than any other mag in Britain!

Future Your guarantee of value

9 770962 935007

12 pages of tips: SMB4 on SNES! Star Wars on NES!

12 stunning pages of tips with player's guides for Super Mario World (SNES), Star Wars (NES) and Duck Tales (GB)!

Got a Nintendo? Then get TOTAL! Issue seven is on sale right NOW!



Helping Hand

Once again in the never-ending battle against fiendishly difficult games, the Helping Hand waves its magic wand and strikes a blow in the name of freedom, justice and devious cheats. OK, so we've managed to sort out a few people's problems, that's all.



Mantis men with flashing blades are dangerous things. They could have your Eye of the Beholder out, mate.

EOTB2 or not EOTB2

We are writing to ask for some much needed help on EOTB2. The problem is that we have gone through a teleportation system and have ended up in a 3 x 3 room, completely sealed with walls. We can't get out.

**Jonny, Pete and Craig
Colwyn Bay, Clwyd**

Last month, R Saxby from Bristol was having great difficulty with the same perplexing plate puzzle. Luckily for all of them, though, fellow adventurer Daniel Stow from Tunbridge Wells in Kent has come to the rescue. Solving the puzzle on the Margoyle level of EOTB2 is very simple. Lay your equipment on the plates in the following pattern:

X		X
	X	
X		X



If you hadn't been doing your Mad Lizzy exercises, you'd never have cleared that jump in your pyjamas.

Shadow play

Please, please, please could you help me. A number of workmates and I are stuck on level 12 of Prince of

Persia. The problem is that the reflection is impossible to kill. A solution would bring harmony back to our place of work.

Graham Aspinall

It's a tricky problem, but the solution's simple. All you have to do is put your sword away and then walk into your reflection. It will disappear and if you continue walking over the edge of the platform, a bridge will appear beneath your feet.

The name's Bond

£25 In response to Spencer Gamble in June's issue of *Amiga Format*, here is a skip-level cheat for *The Spy Who Loved Me*. Type in 'MISS MONEYPENNY' and you can now skip levels by pressing [F10].

**Claire Martin
Edinburgh**

Thanks Claire. Another one in the eye for SMERSH (or is it SPECTRE in *The Spy Who Loved Me*?)

Skip-em-up

£25 In Issue 35 I noticed that Darryn Surrant needed a cheat for *Xenon II*. Well, here it is. Just pause the game and type 'RUSSIAN AIR' (with spaces). Unpause the game and to skip levels all you have to do is press [N].

**Ian Hatcher
Camberley, Surrey**

Nice one Ian.



"You silly tart, let go of me waistband! I can't reach the bulb if you won't let me stand up properly, can I?"

Come out fighting

I have just bought a game called *Pitfighter*. Would you please give me a cheat?

**Neil Jenkins (aged 7)
Stafford**

Okey dokey. Just type LOBSTERS while you're fighting and you'll be able to skip all of the levels by pressing [L] to go to the elimination round, and [C] to go to the championship.

My head is spinning

I wondered if you had any tips or cheats for *Magic Land Dizzy*. I'm completely stuck on it. I can't get anywhere! Any help would be appreciated.

**Steve Russell
Shepton Mallet, Somerset**

Oh dear. Can't get anywhere on *Magic Land Dizzy*, hey? Then it's lucky a Dizzy fan sent in the solution. Here are a few hints to get you started:

Flick the switch for the drawbridge before going to rescue anybody. To get into the castle, use the key at the bottom of the monolith. To get rid of the troll, use the big stick on the goat. Pick up the diamonds as you go along, and start to rescue Dizzy's friends in the following order.

Dora – pick up the power pill and go to the ghosts. Eat them both, pick Dora and drop the power pill. Drop Dora in front of Prince Charming.

Denzil – pick up the handle and use it on the well. Pick up the bucket, go to the hot-water geyser on the far right and fill the bucket with water. Then drop the bucket in front of Denzil.

Daisy – go to the far right and pick up the drink-me potion. Then go towards the gold castle and pick up the gold cross. Next up you have to go into the crypt in Zak's castle and drop the gold cross. Go below the crypt and right, where you will find Daisy. Drop the potion in front of her.

**Michael Low
Marlow Bottom, Bucks**

And finally, a post-European Championship plea to all you football supporters out there who have completed Graham Taylor's Soccer Challenge. You could save a life or two if you write in with your tips for taking a team to stardom. Here's why:

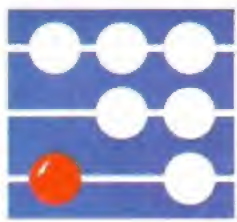
I have almost been driven to a rather unfortunate suicide. Help! All my players are flippin' donkeys.

**Joe West
Bexhill-on-Sea**

Help me! I am getting very annoyed, very quickly. I can't make any money. What am I doing wrong?

**Steven Bates
West Bromwich**

If you're stuck on a particular game or have a solution to a letter printed in the magazine, then write it down and send it in to us at **HELPING HAND**
Amiga Format, 30 Monmouth Street, Bath BA1 2BW



150 STORES NATIONWIDE

TEL: 0543 251275

2mb CDTV AVAILABLE



MONITOR NOT INCLUDED

AMIGA CDTV STARTER PACK

The starter pack gives you a full 1MB Amiga compatible system featuring:-

- Amiga CDTV player
- CDTV Amiga keyboard
- Cumana 3.5" CDTV external black drive
- Infra Red remote controller
- Software:
 - ▶ Welcome disk
 - ▶ Hutchinsons encyclopedia

RRP - £629.97

CALCULUS PRICE

£499.99

ASK ABOUT OUR A500 TRADE-IN OFFER

AMIGA 1085s STEREO

MONITOR



Direct from Commodore's warehouse, Calculus are the first in the U.K. to receive the new Commodore 1085s Stereo Monitor. Compatible with all Amiga products, the new 1085s is not only the latest Commodore monitor but also the best priced. With our buying power, we are able to offer the very latest Commodore monitor at only £219.99 featuring

- Stereo sound
- High Resolution Display
- Ergonomic design
- Full Amiga Connectivity Pack
- Compatible with all Amiga products

RRP - £299.99

CALCULUS PRICE



COMMODORE MPS 1230



FREE SOFTWARE

	RRP
D-PRINT	£99.00
AMIGA LOGO	£49.95
AMIGA VISION	£49.95
Worth:	£198.90

YOURS FREE

A high quality 9 pin Dot Matrix Printer with paper & tractor feed and is fully compatible with Epson FX80 and IBM Industry Standards. High speed 120 CPS draft mode and an NLQ mode of 25 CPS.

D-PRINT Add artist flourish to designing greetings cards, letterheads and posters using high quality graphics.

AMIGA LOGO Educational and programming language.

AMIGA VISION A Multi-Media Authoring System that brings together Video, Animation, Sound, Speech, Graphics and Text Applications.

RRP - £368.89

CALCULUS PRICE

£139.99

SAVE £228.00

MELT DOWN

OUR PRICES ARE SO HOT WE CANNOT GO TO PRESS WITH THEM
PHONE YOUR CALCULUS DEALER NOW!



THE NEW AMIGA 600

THE NEW AMIGA 600

FREE
AT HOME
SERVICE

FREE
GAMES
PACK

Commodore
AMIGA 600

INCLUDES ORIGINAL PRINT HEAD AND
A FREE AMIGA GAME



MONITOR NOT
INCLUDED

The new super compact Amiga 600 featuring:-

- Smart new compact design with built-in TV modulator
- 1Mb chip RAM memory expandable to 2Mb chip RAM with 601, total memory capacity 10Mb RAM
- Industry standard smart card interface PCMCIA interface for memory and peripheral upgrades
- Integrated industry standard IDE (AT) interface available with optional internal 2.5" 20 Mb hard drive
- New Workbench 2 with Kickstart 2.05 ROM
- 12 months on-site warranty for total peace of mind
- Free Mystery Game (single drive only)

The Amiga 600 is available in two versions single drive and 20Mb hard drive.

RRP
£45.93



AWARD WINNING GAMES WORTH £122.52 — YOURS FREE

AWARD WINNERS Award Winners presents 4 of the greatest games of all time in one fantastic value pack.

SPACE ACE Space Ace: Winner of the best animation in the European Computer Leisure Awards 1990.

"Enormously impressive graphics and absolutely astounding animation."

"Brilliant graphics — great sound. An interactive animated cartoon."

"Space Ace has moved computer games into a new graphical dimension."

KICK OFF 2 KICK OFF 2 — Hailed worldwide as the greatest soccer game of all time. Blistering Pace — Pixel Perfect Passing — Superb Tactical Play — Accurate — Realistic — Great Fun to Play!

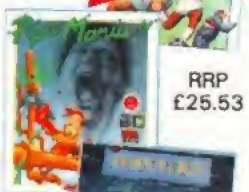
PIPE MANIA is "a classic puzzle arcade game that is so addictive, it should come with a Government Health Warning" C&VG Feb 1990.

POPULOUS Ever wanted to play God?

One of the most original games ever written, often imitated but never bettered, Populous remains one of the most innovative games of all time.

Golden Joystick Award — Most original game of the year.

RRP
£25.53



RRP
£25.53

RRP
£25.53



NEW PRODUCT
CALCULUS
PRICE

AMIGA 600

£39.99
HOT PRICE

AMIGA 600HD

£39.99
HOT PRICE

JUST ARRIVED

The official Commodore
A601 1/2 Meg Upgrade

£29.99 (25.52 Ex VAT)

ONLY

£19.99 (17.06 Ex VAT)

When bought with an A600

MULTISTART II — ROM SHARER WITH 1.3 ROM

The MultiStart II allows you to install Kickstart 2.0 and V1.3 ROMs into your computer and switch between them with the keyboard. You can also install a third ROM on the MultiStart II. Being able to switch between 1.3 and 2.0 allows you to stay compatible with all your older software that won't operate under the new operating system. It's easy to install, with no external wires or switches required. Includes 1.3 ROM

RRP — £74.99

CALCULUS
PRICE

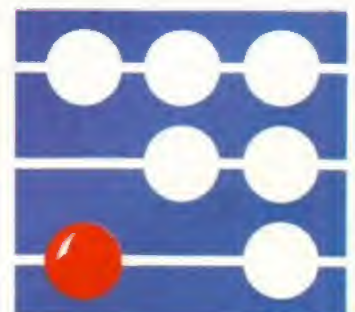
£39.99

£34.03
Ex VAT



COME &
SEE MORE
GREAT
DEALS ON
LEADING
BRANDS
AT YOUR
LOCAL
CALCULUS
STORE

ALL CALCULUS OFFERS
ARE FOR THE MONTH OF
PUBLICATION ONLY



CALCULUS

COMPUTER STORES

YOUR LOCAL STORE... PHONE 0543 251275... FOR YOUR LOCAL STORE... P

COMMODORE 386 S.X.

CHIP UP
TECHNOLOGY
ALLOWS FUTURE
UPGRADES



COMMODORE P.C. 386sx

SOUND & VISION SYSTEM

THE POWER

- 80386SX Processor running at 20Mhz (switchable to 8Mhz)
- Features 'Chip Up' technology
- 52Mb Quantum fast access IDE H.D.
- 1Mb system RAM (Exp. to 17Mb)
- 3.5" 1.44Mb floppy drive
- 16 Bit VGA graphics adaptor
- 256K Video RAM (Exp. to 512K)
- MS DOS 5. Operating system.
- 14" VGA Colour Monitor (SVGA Monitor also available at an additional cost.)

THE SECURITY

- The Commodore PC Player is covered with 12 Month on-site service for peace of mind.

THE PLAYER

- Adlib Sound Card and Stereo Speakers
- Games: Pit Fighter, Super Space Invaders, Hard Drivin II, Mig 29, Trivial Pursuits, Escape from the Planet of the Robot Monsters, Castle Master, Wing Commander

THE BUSINESS

- Windows III
- Framework XE
- Commodore PC Mouse (inc Software Driver)
- User Friendly "Front End" Icon Menu System
- Secretary Bird Office Manager

CHIP UP
TECHNOLOGY
ALLOWS FUTURE
UPGRADES

CALCULUS PRICE

£799.99 INC. VAT

FREE!



FRAMEWORK XE
THE LATEST ENTRY
LEVEL EXECUTIVE
EDITION

RRP inc. VAT
£149.99



Add a Commodore
MPS 1230 Printer
at the special pack
price of inc. VAT

£129.99

AND ALSO FREE

Adlib Soundcard	£89.99
Stereo Speakers	£25.00
5 Games Pack	£39.99
Wing Commander	£34.99
Pit Fighter	£29.99
Super Space Invaders	£24.99
Secretary Bird	£39.99
Framework XE	£149.99
TOTAL PRICE (inc VAT)	£434.93

PRICE SHOCK

Multi-Media Prices down with the new Amiga 3000B Multi-Media. The amazing power of the flagship Amiga 3000B Multi-Media is now available at an unbelievable price.

Introducing the Amiga 3000B Multi-Media Desktop and Tower.

AMIGA 3000B MULTI-MEDIA DESKTOP

68030 processor running at 25Mhz
3Mb RAM (2Mb video and 1Mb fast RAM)
expandible to 18Mb
52Mb Hard Drive
512Kb of 32 bit ROM
3.5" 880K floppy drive with 3.5" spare drive bay
4 Zorro III slots with 2 aligned PC AT slots
8 bit D/A converter.



Features
3Mb
System
RAM

WITH MONITOR AND
SOFTWARE OPTIONS

**AMAZING 210Mb
UPGRADE FOR ONLY
£200.00 Ex VAT**

**AMAZING 425Mb
UPGRADE FOR ONLY
£350.00 Ex VAT**

EXCLUSIVE
PRICE
CALCULUS
PRICE

£1499.00 Ex. VAT

Multi-Media Software Pack £170.20 EX. VAT

DELUXE PAINT IV The industry standard paint package for all Amiga users, now with video and animation. Used with SCALA, you have the ability to introduce paintings, drawings, video and animation into your presentation. Normal RRP - £89.99 inc VAT

SCALA The best presentation and video titling package available for applications in Multi-Media. Business presentation and video. Once you have used SCALA you will wonder how you ever managed without such a versatile application software package. Normal RRP - £199.00 inc VAT

AMIGA VISION A Multi-Media Authoring system that brings together Video, Animation, Sound, Speech, Graphics and Text applications. Normal RRP - £99.00 inc VAT

Features
5Mb
System
RAM

AMIGA 3000B MULTI-MEDIA TOWER

68030 tower system running at 25Mhz
5Mb RAM (1Mb video, 4Mb fast RAM)
expandible to 18Mb
105Mb Hard Drive
512Kb of 32 bit ROM
3.5" floppy drive with 3x 5.25" and 1x 3.5" drive bays
8 system slots featuring 1 CPU slots, 7 Zorro III slots with 2 aligned PC AT slots
8 bit D/A converter.



WITH MONITOR AND
SOFTWARE OPTIONS

EXCLUSIVE
PRICE
CALCULUS
PRICE

£1999.00 Ex. VAT

**AMAZING 210Mb
UPGRADE FOR ONLY
£300.00 Ex VAT**

**AMAZING 425Mb
UPGRADE FOR ONLY
£550.00 Ex VAT**

Multi-Media Software Pack £170.20 EX. VAT

DELUXE PAINT IV The industry standard paint package for all Amiga users, now with video and animation. Used with SCALA, you have the ability to introduce paintings, drawings, video and animation into your presentation. Normal RRP - £89.99 inc VAT

SCALA The best presentation and video titling package available for applications in Multi-Media. Business presentation and video. Once you have used SCALA you will wonder how you ever managed without such a versatile application software package. Normal RRP - £199.00 inc VAT

AMIGA VISION A Multi-Media Authoring system that brings together Video, Animation, Sound, Speech, Graphics and Text applications. Normal RRP - £99.00 inc VAT

PERIPHERAL OPTIONS

- ★ A2300 Internal Genlock **£76.59** Ex VAT
- ★ A3010 880K Internal Floppy Drive **£95.00** Ex VAT
- ★ A3015 1.44Mb Internal Floppy Drive **£95.00** Ex VAT
- ★ CBM 1960 14" Multisync Monitor **£399.00** Ex VAT
- ★ CBM 21 MP 21" Multisync Monitor **£1299.00** Ex VAT

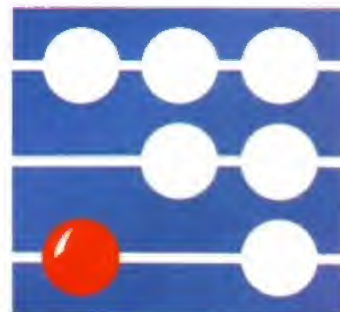
VISIT
YOUR LOCAL
CALCULUS
STORE FOR
A FREE
DEMONSTRATION

OVER ONE HUNDRED
AND FIFTY STORES
THROUGHOUT
THE U.K.
FOR MORE
INFORMATION AND
THE LOCATION
OF YOUR LOCAL
CALCULUS STORE
PHONE

**0543
251275**

COMPUTER DATABASE
OF CALCULUS STORES

ITEMS HELD IN STOCK MAY
VARY FROM STORE TO STORE



CALCULUS
COMPUTER STORES

YOUR LOCAL STORE... PHONE 0543 251275... FOR YOUR LOCAL STORE...



EAGLE SOFTWARE

118a Palmers Road
New Southgate
LONDON N11 1SL

(10 am - 6pm 6 days)

Tel: 081-361 2733/5730
(2733 Faxline after 6pm)

**FREE
MYSTERY
GAME**
WITH ORDERS
OVER £50



ST & AMIGA BUDGET TITLES UNDER £10

1 Meg Cricket (Amiga only)	£3.99	F16 Combat Pilot	£7.99	Platoon	£5.99
3 Stroops	£6.99	Gauntlet 3	£6.99	Predator	£8.99
3D Pool	£6.99	Ghostbusters II	£6.99	Rambo III	£8.99
Afterburner	£8.99	Ghouls'n'Ghosts	£6.99	Resolution 101	£8.99
Altered Beast	£8.99	Golden Axe	£6.99	Rocket Ranger	£8.99
Arkanoid (Amiga only)	£4.50	Hard Drivin'	£8.99	Rolling Ronny	£3.99
Arkanoid II	£8.99	Head over Heels	£6.99	R-Type	£6.99
Baal	£5.99	H. H. Guide to Galaxy	£7.99	Run The Gauntlet	£6.99
Barbarian	£5.99	IK+	£6.99	Shadow of the Beast	£6.99
Barbarian II	£8.99	Impossible Mission II	£6.99	Shadow Warrior	£6.99
Batman The Movie	£8.99	James Pond	£8.99	Sherman M4	£8.99
Beach Volley	£8.99	Jet Set Willy (Amiga only)	£7.99	Shinobi	£8.99
Blood Money	£8.99	Kid Gloves	£3.99	Shuffle Puck Cafe	£6.99
Cabal	£8.99	Last Ninja II	£8.99	SpeedBall	£7.99
California Games	£8.99	Licence to Kill	£3.99	Starglider II	£6.99
Carrier Command	£8.99	Lombard RAC Rally	£8.99	Strike Force Harrier	£8.99
Celica G14 Rally	£8.99	Lotus Esprit	£8.99	Stunt Car Racer	£8.99
Centrefold Squares	£8.99	Manic Miner (Amiga only)	£7.99	Super Hang On	£6.99
Cloud Kingdom	£8.99	M. Jackson Moonwalker	£8.99	Switchblade	£6.99
Colossus Chess	£8.99	Moonshine Racers	£8.99	Teenage Mutant Turtles	£8.99
Conflict in Europe	£7.99	New Zealand Story	£6.99	Thunderstrike	£8.99
Cont. Circus (ST only)	£4.99	Nitro	£7.99	Toolbit	£6.99
Defender of the Crown	£7.99	North & South	£6.99	TV Sports Football	£7.99
Deluxe Strip Poker	£8.99	Out Run	£6.99	Vigilante	£6.99
Double Dragon 1 or II	£8.99	Operation Thunderbolt	£8.99	War Zone	£8.99
Dragon Ninja	£8.99	Operation Wolf	£8.99	Waterloo	£6.99
Fantasy World Dizzy	£5.99	Pang	£6.99	Wings of Fury (Amiga only)	£6.99
				WC Leaderboard	£8.99
				Xenon II	£7.99

TOP TITLES	ST	AMIGA
G.5 Meg Upgrade	N/A	£25.99
W. Series Cricket	N/A	£14.99
3D Construction	£16.99	£16.99
3d Construction Kit II	£33.99	£33.99
A-Train	N/A	£30.99
Addams Family	£16.99	£16.99
Adventure Tennis	£16.99	£16.99
Agony	£15.99	£15.99
Air Support	£15.99	£15.99
Alpha Waves	£18.99	£18.99
Altered Destiny	N/A	£21.99
AMNIONS	£15.99	£12.99
Amos (Easy)	N/A	£23.99
Amos 3D	N/A	£23.99
Amos Compiler	N/A	£19.99
Amos The Creator	N/A	£36.99
Another World	£17.99	£17.99
Apidya	£16.99	£16.99
Aventura	£15.99	£15.99
Armourededon	£15.99	£15.99
Armourededon Upgrade	£10.99	£10.99
Asbes of Empire	£20.99	£20.99
A.T.A.C.	£23.99	£23.99
ATOMINO	£8.99	£8.99
AWesome	£8.99	£8.99
B17 Flying Fortress	£23.99	£23.99
Back to the Future III	£10.99	£10.99
BARBARIAN II (Psyq)	£12.99	£15.99
Bard's Tale III	N/A	£8.99
B.A.T. II	£22.99	£22.99
Battle Chess II	£16.99	£16.99
Battle Command	£13.99	£13.99
Battle Isle	£18.99	£18.99
Battle Isle Data Disc	N/A	£13.99
BATTLE MASTER	£1.99	£11.99
Betrays!	N/A	£8.99
Biz Run	£16.99	£16.99
Billiard Simulator II	£16.99	£16.99
Birds of Prey	£23.99	£23.99
Black Crypt	N/A	£16.99
Blue Max	£19.99	£19.99
Bonanza Brothers	£16.99	£16.99
Boston Bomb Club	£16.99	£16.99
Bountiful HD Scenery	N/A	£13.99
Buck Rogers	£19.99	£19.99
Bug Rogers II	N/A	£20.99
Cadaver	£16.99	£16.99
Cadaver - the pay off	£10.99	£10.99
California Games II	£16.99	£16.99
Captivo	£15.99	£15.99
Carl Lewis Challenge	£15.99	£15.99
Carmen Europe	N/A	£23.99
Carmen Time	N/A	£23.99
Carmen USA	N/A	£23.99
Carmen World	N/A	£23.99
CARTHAGE	N/A	£7.99
Carve Up	£9.99	£15.99
Castle	£16.99	£16.99
Chaos Engine	£16.99	£16.99
Champion of the Raj	£9.99	£9.99
Chase HQ	£6.99	£6.99
Chase HQ II	£14.99	£14.99
Chuck Rock	£16.99	£16.99
Cisco Heat	£11.99	£11.99
Civilisation	£23.99	£23.99
C.Y.'s Air Combat	£20.99	£20.99

TOP TITLES	ST	AMIGA
Codename Assassin	N/A	£16.99
Cool Croc Twins	£8.99	£8.99
Combo Racer	£8.99	£8.99
Conflict Korea	N/A	£23.99
Cover Girl Poker	£16.99	£16.99
Covert Action	£23.99	£23.99
Crazy Cars III	£16.99	£16.99
Crime Wave	£16.99	£16.99
Cruise for a Corpse	£17.99	£17.99
Curse of the Enchanter	N/A	£23.99
Dark Queen of Kryn	N/A	£22.99
Darkman	£15.99	£15.99
Days of Thunder	£15.99	£8.99
Deliverance	£15.99	£15.99
Demoniak	£19.99	£19.99
Deuterio	£14.99	£14.99
Devious Designs	£16.99	£16.99
D/Generation	£16.99	£16.99
Disciples of Steel	£17.99	£17.99
Do Jo Dum	N/A	£16.99
Double Dragon III	£16.99	£16.99
Dreadnoughts	N/A	£23.99
Dune	£19.99	£19.99
Dungeon / Chaos	£15.99	£15.99
Dynal Blast	£20.99	£20.99
ELF	£16.99	£16.99
Elvira Mistress Dark	£21.99	£21.99
Elvira II - Cerberus	£23.99	£23.99
Elvira the Arcade	£16.99	£16.99
Epic	£19.99	£19.99
Eye of the Beholder	N/A	£19.99
Eye of the Beholder II	N/A	£23.99
F14 Tom Cat	£18.99	£18.99
F15 Strike Eagle II	£23.99	£23.99
F117A Stealth Fighter	£21.99	£21.99
F19 Stealth Fighter	£19.99	£19.99
F20 Retaliator	£15.99	£15.99
Face Off - Ice Hockey	£15.99	£15.99
Falcon 3.0	£23.99	£23.99
Fantastic Voyage	£16.99	£16.99
Fate of Atlantis (Adv)	N/A	£17.99
Fate of Atlantis (Arc)	N/A	£17.99
F. of Free Traders	£6.99	£6.99
Final Blow	£16.99	£16.99
Final Fight	£16.99	£16.99
Fire and Ice	£16.99	£16.99
First Sam/Mag/Man	£20.99	£20.99
FireStone HD Scenery	N/A	£13.99
Flight of the Intruder	£16.99	£22.99
Floor 13	£19.99	£19.99
Football Crazy	£16.99	£16.99
Free DC	N/A	£18.99
Fuzzball	N/A	£13.99
G-Loc R360	£16.99	£16.99
Gauntlet III	£18.99	£12.99
Global Effect	£18.99	£16.99
Goblins	£16.99	£16.99
Godfather	£18.99	£18.99
Gods	£16.99	£16.99
Go for Gold	£9.99	£8.99
Golden Shot	£16.99	£16.99
G. Gooch Cricket	£21.99	£21.99
Graham Taylor	£21.99	£15.99
Grand Prix (Formula)	£23.99	£23.99
Monstone	£21.99	£21.99
Gunship 2000	£21.99	£21.99
Hagar the Horrible	N/A	£15.99

TOP TITLES	ST	AMIGA
Hard Drivin II	£15.99	£12.99
Harlequin	£16.99	£16.99
Harpoon (1 Meg)	N/A	£19.99
Heart of China	£24.99	£24.99
Heart of the Dragon	£23.99	£23.99
Hero's Quest (Stren)	£16.99	£16.99
Hill Street Blues	£15.99	£15.99
Home Alone	N/A	£23.99
Hook	£15.99	£15.99
Hudson Hawk	£15.99	£15.99
I. Bothams Cricket	£19.99	£19.99
Indy Heat	£16.99	£16.99
Ishtar - Legend Fortress	£20.99	£20.99
Jack Nicklaus Unlimited Clip	N/A	£10.99
Jaguar XJ220	£16.99	£16.99
Jim Power	£16.99	£16.99
J. White's Whirlwind	£19.99	£19.99
J. Barnes (1 Meg)	£15.99	£15.99
J. Madden's Football	N/A	£16.99
Kick Off II (1 Meg)	£15.99	£15.99
Kick Off II (5 Meg)	N/A	£14.99
K. O. Winning Tactics	£9.99	£9.99
Kid Gloves II	£16.99	£16.99
Killing Cloud	£11.99	£11.99
KILLING GAME SHOW	£15.99	£8.99
Kings Quest IV	£12.99	£22.99
Kings Quest V	£26.99	£26.99
Knight Mare	£16.99	£16.99
Knight of the Sky	£23.99	£23.99
Last Ninja III	£16.99	£16.99
Leander	£15.99	£15.99
Legend	£19.99	£19.99
Leisure Suit Larry II	£14.99	£14.99
Leisure Suit Larry III	£25.99	£25.99
Leisure Suit Larry V	N/A	£26.99
Lemmings	£15.99	£15.99
Lemmings II	£15.99	£15.99
Lemmings - Data Disk	£13.99	£13.99
Lemmings - Stand Alone	£15.99	£15.99
Life and Death II	N/A	£20.99
Links HD	N/A	£23.99
Lord of the Rings	N/A	£20.99
Lost Patrol	£15.99	£12.99
Lotus Turbo Challenge II	£16.99	£16.99
Lure of the Temptress	£19.99	£19.99
M1 Tank Platoon	£19.99	£19.99
Magi Garden	£16.99	£16.99
Magic Pockets	£15.99	£15.99
Man Ult. Europe	£15.99	£15.99
M. Dika's Ultimate Football	£18.99	£18.99
Mega & Master	N/A	£27.99
Mega Fortress	£16.99	£16.99
Mega Sports	£16.99	£16.99
Megatraveler II	£20.99	£20.99
Mercenary III	£20.99	£20.99
Merchant Colony	£20.99	£20.99
Microprose Golf	£23.99	£23.99
Midnight Resistance	£6.99	£6.99
Midwinter II	£23.99	£23.99
Mig 29 Fokrum	£16.99	£16.99
Mig 29M Super Ful	£19.99	£19.99
Might of Magic III	N/A	£23.99
Moontail	£15.99	£15.99
Moonsong	£19.99	£19.99
Monkey Island	£15.99	£15.99
Monkey Island II	N/A	£25.99

TOP TITLES	ST	AMIGA
Mouse (Switchable)	£16.99	£16.99
Mystical	£15.99	£15.99
Myth	£18.99	£18.99
Narc	£15.99	£15.99
Navy Seals	£15.99	£15.99
Nebulus II	N/A	£15.99
Nightshift	£10.99	£18.99
No Greater Glory	N/A	£23.99
ORBITUS	£12.99	£12.99
Ork	£15.99	£15.99
Pacific Islands - T. Yankee	£120.99	£20.99
Panza Kick Boxing	£8.99	£8.99
Paperboy II	£16.99	£8.99
Parasol Stars	£15.99	£15.99
Pegasus	£16.99	£16.99
Perfect General	N/A	£20.99
PGA Golf Tour	N/A	£20.99
PGA Courses Disk	N/A	£10.99
Pinball Dreams	N/A	£15.99
Pitfighter	£8.99	£8.99
Plan 9 Outer Space	£20.99	£20.99
Plotting	£15.99	£15.99
Populous II	£20.99	£20.99
Predator II	£9.99	£9.99
Premiere	N/A	£20.99
Prince of Persia	£15.99	£15.99
Pro Flight	£30.99	£30.99
Pro Tennis Tour	£8.99	£8.99
Project X	£16.99	£16.99
Push Over	£15.99	£15.99
Puzznic	£8.99	£8.99
QUEST AND GLORY	£20.99	£20.99
Race Drivin'	£11.99	£11.99
Rainbow Tycoon	£24.99	£24.99
Rainbow Islands	£6.99	£6.99
R.B.L. 2 Baseball	£16.99	£16.99
Realms	£20.99	£20.99
Red Baron	£23.99	£23.99
Red Zone	£15.99	£15.99
Rise of the Drago	N/A	£24.99
Risky Woods	£16.99	£16.99
Robin Hood	£16.99	£16.99
Robocop	£15.99	£15.99
Robocop 2	£6.99	£8.99
Robocop III	£14.99	£14.99
Robocop IV	£16.99	£16.99
Robo Sports	N/A	£23.99
Roll Land	£16.99	£16.99
Rookies	£17.99	£17.99
R-Type II	£14.99	£14.99
Rugby World Cup	£15.99	£15.99
Rules of Engagement	N/A	£16.99
R.V.F. Honda	£6.99	N/A
Savage Empire	N/A	£22.99
Secret Silver Blues	£21.99	£21.99
Secret Weap Luft	£19.99	£19.99
Sensible Soccer	£16.99	£16.99
Shadowlands	£20.99	£20.99
SHADOW BEAST II	£12.99	£12.99
Shuttle the Sim	£23.99	£23.99
Silent Service II	£23.99	£23.99
Sim Ant	N/A	£22.99
Sim Earth	£20.99	£20.99
Simpsons	£15.99	£15.99
Slipwalker	£15.99	£15.99
Smash TV	£15.99	£15.99

TOP TITLES	ST	AMIGA
Space 1889	£20.99	£20.99
Space Ace II	N/A	£33.99
Space Gun	£15.99	£15.99
Space Crusade	£16.99	£16.99
Space Quest I, II, III, or IV	N/A	£23.99
Special Forces	£23.99	£23.99
Speedball II	£15.99	£7.99
Spirit of Excalibur	£20.99	£14.99
Star Trek V	£16.99	£16.99
Starfighter II	N/A	£16.99
Steel Empire	£20.99	£20.99
Stereo Master	£26.99	£26.99
Storm Master	£16.99	£16.99
Strider II	£15.99	£15.99
Strike Fleet	£16.99	£16.99
Striker	£16.99	£16.99
Suplex	£6.99	£6.99
Super Cars II	£15.99	£15.99
Super Off Road	£8.99	£8.99
Super Space Invaders	£16.99	£16.99
Supremacy	£20.99	£18.99
Suspicious Cargo	£16.99	£16.99
Switchblade II	£15.99	£15.99
Take		

DON'T TAKE FLIGHT - TAKE CONTROL!

COLORADO SPECTRUM MOUSE YOKE

£24.95 RC SIMULATIONS 0272 550900



This is without a doubt the barmiest-looking peripheral we've ever seen here at *Amiga Format*. It's made up of a g-clamp, a piece of cast aluminium, a plastic tube and a pair of handlebar-type thingles. The aluminium block fixes to

the edge of a table and the tube and handlebars slot into the block. The crazy ingredient is your mouse, which sits backwards on top of the block, held down by a length of elastic.

Daft as it sounds, you have to admit it doesn't look all that bad, and (even stranger) it actually works! It's not the most robust of add-ons, and you get the feeling that it wouldn't last up to a full game of *Formula 1 GP* if the going got tough. But surprise of surprises, it did - and it was actually quite fun. It's meant for flight sims, though it works on any game that's mouse-controlled.

STIK-GRIPPER TOTAL CONTROL STAND

£14.95 RC SIMULATIONS 0272 550900



Another rather kooky gizmo from RC Simulations is this thing - the TCS joystick stand. It comes in flatpack form, and it's made up of three bits of pre-formed plastic, a bunch of nuts and bolts and a couple of strips of Velcro. It's assembled in seconds and, once

built, it's a perfect resting-place to plonk your joystick when you've only got a small worktop.

Your joystick is held in place by the Velcro, and the whole stand fits neatly under your legs (well, it depends on the shape of your legs really). Although it looks a tad uncomfortable, it's actually unnoticeable after a few seconds. Once again, it's intended for flight-sims really (where it really pays dividends because it puts the joystick in the correct position) but you can use it for any number of applications.

BOOSTING UP YOUR A600

We all knew it wouldn't be long before the add-on manufacturers started making new bits for the A600 - but we didn't realise they'd be quite so quick. If you're looking for a way to add a megabyte or a half-megabyte of RAM to your A600 - then there's already a way...

AMITEK A600 1MB RAM BOARD

£59.95 (£29.95 UNPOPULATED) SILICA 081-309 1111



Open the trapdoor on the underside of your A600, plug in this 5 by 10cms circuit board and bingo! You've got a full 2Mb of RAM in your new A600. What's more, it's even got a battery-backed-up clock, so the date and time on your Workbench are always accurate. The clock battery is actually a capacitor which takes its power from the trapdoor connection, so you never need to change it. As long as you top it up occasionally

by switching your computer on, it'll last for ages. Available with half a meg, or one full megabyte of RAM.

Coming Contraptions

Here it is, your hot-off-the-press guide to what's in store for the more 'serious' side of your Amiga. Software, hardware, bits of firmware with knobs on - we've got it all, earmarked for a full review in a forthcoming issue. For now, feast your eyes on these...

ALFA DATA PEN MOUSE

£29.95 GOLDEN IMAGE (UK) 081-365 1102



So you don't like using your common-or-garden mouse? Have you had enough of trackballs and you want to try something different? Whether you're just bored or looking for a better way to draw on *Deluxe Paint*, the new Alfa Data Pen Mouse could be what you've been looking for. In a nutshell, it's an optical sensor mounted in a pen-style casing, with a special optically encoded mouse-mat. It's light, easy to handle and it feels pretty much like a pen once you've adjusted to it.

XCAD 2000/3000

£129/£359 DIGITAL MULTIMEDIA 0702 206165

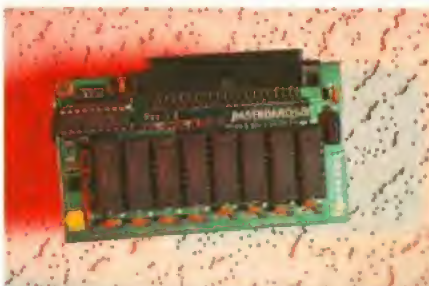


XCad, the potential new rival to the *DynaCADD* computer-aided designer, now appears in two new incarnations: *XCad 2000* and *XCad 3000*. *XCad 2000* is a low-priced, entry-level system which can be returned for a full refund when you upgrade to the high-end *XCad 3000*. *XCad 2000* comes with extensive 2D and 3D tutorials, 2D construction and detailing commands, a true 3D database, and automatic perspective views.

XCad 3000 uses the same command structures and databases as *XCad 2000*, with the addition of support for industry-standard graphics tablets and powerful reporting facilities. Look out for a detailed review in a future issue of *Amiga Format*.

EXPANSION SYSTEMS 601C A600 RAM BOARD

£46.86 ZCL
0543 251 275



Like the Amitek board, the Expansion Systems Baseboard 601 is available in half and one-meg versions. It fits neatly into the trapdoor slot under your A600. The board size is virtually identical, and most of the components are the same, with the exception of the clock battery.

This is a more traditional lithium battery, so it will need changing once every couple of years or so. But this is easy because Expansion Systems have put it on the exposed side of the circuit board so you don't need to remove the whole thing from the trapdoor.

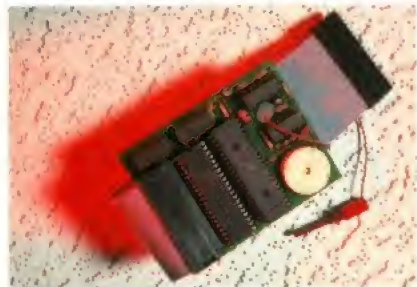


THERE'S ROM IN HERE FOR TWO!

If you're a Workbench 1.3 user, you're probably bemoaning the fact that you haven't got the new features available on Workbench 2, and if you've recently upgraded to a new machine, you're probably upset that you can't run some of your old software anymore. A dilemma? Not anymore, thanks to a new breed of add-on boards which enable you to have the best of both worlds. ROM sharers (as they're known) have sockets for two Amiga ROMs (generally you'd use a 1.3 and a 2.01 ROM, but in theory you could use any Amiga ROM, old or new). Here are two that are just about to hit the streets...

ICD ROM SHARER

£TBA SILICA 081-309 1111



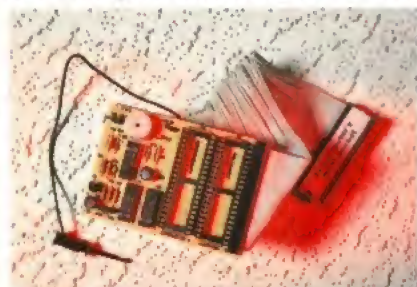
The ICD ROM Sharer is a small circuit board about 10 by 6cms big, with a ribbon cable which connects to your old ROM socket. Fitting it requires you to open your Amiga's casing, so don't expect your guarantee seals to be intact afterwards. You have to lever out your old ROM and fit it into the socket on the Sharer board and you'll also need to buy a new ROM for the other slot.

Switching between Workbench versions is really easy - it automatically boots up using the ROM in slot 1, but to change

over, you just have to hold the Ctrl-Amiga-Amiga keys until you hear a beep. Couldn't really be a lot easier, could it?

TRILOGIC KEYBOARD ROM SHARER

£27.99 (1.3 ROM £29.99, 2.01 ROM £39.99)



TRILOGIC 0274 691 115

This ROM sharer is made by UK-based hardware manufacturer Trilogic and it performs exactly the same tasks as the ICD equivalent. Similarly, it fits inside your Amiga's casing (voiding the guarantee), and uses the same switching method.

Switching between ROMs is performed in the same way, using the standard Ctrl-Amiga-Amiga reset combination. The only real difference is the type of ribbon connector used and the size and layout of the

board, which is a bit larger than the ICD version.

SAMPLE COLLECTION

£49.95 WALKABOUT MUSIC 0726 813807



Walkabout Music, a fledgling company based in Cornwall, started out in business by selling their samples on cassettes via professional music magazines. As well as the usual offerings of drum sounds and spot FX, the company takes in samples from several different cultures from all around the world, even as far away as Africa, India and the Far East.

Now they are heading into different territory again by marketing their collection in the form of disk-based

sound samples for the Amiga. Each different sound has been sampled at twice the normal rate of most Public Domain Amiga samples which gives a far greater clarity, while retaining compatibility with most sequencers.

Each disk is filled with samples, and you can pick up one for £2.50, 10 for £19.95, or the whole 24 for 50 quid.

EXPANSION SYSTEMS BASEBOARD PLUS 4 A500P RAM BOARD

£79.99 (UNPOPULATED) TRILOGIC 0274 691 115

This system is designed to be used on the newer A500 Plus machines to provide up to 4Mb of RAM. It's different to old A500 RAM expansions in that it uses all the new signals provided on the A500 Plus trapdoor connector. There is one drawback however: there's a second board which fits under the Gary chip requiring you to open your machine's case. The chances are that your A500 Plus is pretty new, so this means kissing goodbye to the guarantee. It's available in four configurations: 1Mb (£99.00), 2Mb (£129.99), 4Mb (£169.99) and Unpopulated (£79.99).

'Serious' reviews

This is the section of the magazine dedicated to bringing you honest and intelligent reviews of the latest 'serious' releases in hardware and software.

From expansions such as extra memory and hard drives through to useful, practical utilities to the latest in 'productivity' (DTP, databases) and 'creativity' (paint, animation, 3D, digitisers and music) software, it's all in here.

Two years running, *Amiga Format* has been voted by computer retailers as the magazine that they most trust when they're deciding what to stock, so you can see that we're the people best placed to advise you on what to buy. With our expert knowledge, we know what's the best program to date for any particular kind of job, and we'll see how anything new stacks up against the best in the business.

Contents

There's an astonishing mix of reviews on the menu this month, so prepare your tastebuds for a real delight.

MONITORS ROUNDUP 118

We take a thorough look at the screens available for the Amiga, from the humble single scan to professional multisyncs.

AMAX II PLUS 128

If you fancy running Apple Macintosh software without shelling out Mac prices, AMax II could well be for you.

MODEM ROUNDUP..... 135

If you want to defraud large corporations out of many millions of pounds, you'll need a modem. Get hacking.

DATL COLOUR DIGTISER 144

A real-time colour digitiser at a mono price.

STUDIO 16/AD 1012 146

Straight to disk recording makes its Amiga debut.

AVIDEO 148

Have we got AVideo? Yes, we've got a video.

ACTION REPLAY 152

Handy hacking cartridge or pathetic plastic lump?

EPSON GT-6000 SCANNER 154

Flatbed colour scanning at a previously unheard of price.

MANIC MOUSE-DAY 157

Say cheese, as we take a look at pointer movers.

How the Ratings System works

SPEED (marked out of 5) ●●●●●

Tremendously important for both hardware and software: there's nothing more annoying than waiting. A purely intuitive judgement.

DOCUMENTATION (out of 5) ●●●●●

Although there are some packages that are so simple no manual is needed, complex items benefit hugely from a good explanation.

ACCESSIBILITY (out of 5) ●●●●●

The target for all good software should be powerful but simple: this rating assesses how easy it is to get to grips with the item.

FEATURES (out of 5) ●●●●●

Does it do what you want it to do? How well does it do it? And does it also do lots of other things that you'd never have thought of?

VALUE (out of 5) ●●●●●

A pretty important rating, this one: if a package does everything you could wish for, it's no use to you unless you can afford to buy it.



The Verdict, our at-a-glance overall rating, is a percentage: it's based on sheer quality but with the price taken into account, so that you know what kind of a deal you get.

WE'VE GOT THE POWER!..

YOUR LOCAL SHOP.....IN LONDON!

**FOLD
HERE**



**BEST
PRICES!**

DIRECT LTD

GIVING YOU THE MOST OUT OF YOUR AMIGA

★ THE NEW AMIGA 600 IS HERE! ★

1 Year on-site maintenance includes
Built-in TV-modulator. Optional built-in 20Mb hard drive

Pack 1a Amiga 600

Features:
Motorola 6800
Built-in TV-modulator
1Mb Memory
512Kb ROM
Smart Card Interface
SMT - Surface mounted technology
4096 Colour Palette
Compatible with all A500+ software
Built-in battery clock
Version 2.05 W/bench
Plus: Deluxe Paint III & FREE game

AXE POWER PRICE £345.99

Pack 1b Amiga 600 HD

with 20Mb hard drive built-in
AXE POWER PRICE £455.99

Pack 1c

Pack 1a with the following:-
Good quality joystick, mouse mat
Rick Danger II
Test Drive II
Gazza I
Gunship
Days of Thunder
10 disks & 10 capacity box
PLUS TRANSWRITE (voted one of the best word processors for the Amiga).

AXE POWER PRICE £399.99

AXE POWER PACK 2

Pack 1a Plus Philips 8833 Mark II colour stereo monitor including all leads + dust cover and game

AXE POWER PRICE £564.99

Pack 1b Plus Philips colour stereo monitor including all leads + dust cover and game

AXE POWER PRICE £674.99

Pack 1c Plus Philips colour stereo monitor including all leads + dust cover and game

AXE POWER PRICE £614.99

**PRICE
BREAK**

AXE POWER PACK 3 ITS GOT THE POWER
From £539.99 with software

2 year warranty on our Quantum Drives

AMIGA 1500 COMPUTER PACK WORKBENCH 2.04

BRAND NEW 1500Pack that's ideal for both home and business!!!
Central Processing Unit (CPU)....
1mb. RAM, 2, 3.5" Floppy Disk Drives. Eight expansion slots to take all Amiga 2000 peripherals.
Keyboard and Mouse
Plug-in keyboard with Numeric key pad. 4 cursor keys. 2 button Amiga Mouse.

PLATINUM WORKS
HOME ACCOUNTS
DELUXE PAINT III
ELF - MAGIC GAME
TOKI - ANIMATED FUN
AMIGA GUIDE BOOK

THE ULTIMATE PACK **AXE POWER PRICE INC. VAT**
without monitor£539.99
with Philips 8833 Mk II£755.00
with Commodore 1084S£769.99
KCS IBM adaptor.....£279

52Mb Quantum + GVP Controller Card£269.99
120Mb Quantum + GVP Controller Card£429.99

AXE POWER PACK 4

HOME STARTER POWER - It's all you will need!

Amiga 500 Plus + joystick + dust cover + mouse mat + 10 disks + 40 cap lockable storage box + the AXE pack of FIVE GREAT GAMES + word processor + second drive + Philips 8833 MkII monitor + dust cover + all leads + F19 Stealth Fighter + 1 year on-site maintenance (monitor) + the AXE SUPER COMPUTER TABLE (RRP £79.99) featuring extended shelf for keyboard + second shelf for printer - makes your Amiga into a REAL workstation.

AXE POWER PRICE £699 + Swift 9 colour printer inc. printer pack **£899**

Authorised dealers for Commodore, Atari, Amstrad, Citizen, Star, Panasonic, Supra, Sega, Hewlett Packard

ORDERING POWER It's so easy!

24 HOUR SALES POWER HOTLINES

081 343 0419 (6 lines)



HOW TO ORDER

By phone
081 343 0419

By fax It's fast
081 643 5414

By post: make cheques, bankers drafts, postal orders or building society cheques payable to

Direct Ltd.
Allow 5 working days for personal cheque clearance.

Send orders to:
14 Station Road, Finchley, London N3 2RY

Next day delivery only £10.00 inc. VAT
3-5 day only £7.50
P&P under £100.00 only £2.50
P&P over £100.00 only £4.00

MAIL ORDER PRICES ONLY - SHOP PRICES MAY VARY

Please have your credit card ready when ordering for easy reference. Thank you

OPENING HOURS:

Mon-Fri: 9.00am - 6.30pm
Saturday: 9.00am - 6.00pm
Sunday: (shop) open 10.00am-1.00pm

E & O.E. Prices are correct at time of going to press, and include VAT but subject to change, as we are sometimes let down by suppliers. Call first.



PRICE...POWER...PERFORMANCE

VISIT OUR SHOPS!

Power Station Computers, 14 Station Road, Finchley, London N3 2RY
It's right by Finchley Central Tube Station so now you can try our products before buying! - our trained and friendly staff will be pleased to demonstrate any product

AXE COMPUTERS, 299-301 High Street, Sutton, SURREY
TEL: 081 643 7078

IMPORTANT ALL machines are tested prior to shipping

NEW PRICE

SCOOP! MONITOR POWER

NEW PRICE

AXE SCOOP!
Commodore 1084S colour stereo monitor inc. Amiga lead

AXE POWER PRICE of only £219.99 inc. VAT!!

PHILIPS 8833 MK11 UK VERSION

Including **FREE** lead plus **FREE** dust cover plus **FREE** F19 Stealth Fighter plus **FREE** 1 year on-site maintenance

AXE Scoop! POWER PRICE only £219.99 inc. VAT

A500 HARD DRIVE PROMOTION POWER

GVP Series II 120Mb hard drive (takes up to 8Mb)

AXE POWER PRICE only £459 inc. VAT

PRICE BREAK

GVP SER II 52MB (TAKES 8MB RAM) £339.99

NEW PRODUCTS

PRINTER POWER

NEW PRICES

Citizen 120D 9 pin, 120 cps, NLQ, 80 col	£129.99
Ricoh Lazerjet - LP1200	£759.00
Citizen SW9 Colour	£199.00
Citizen SW24E Colour (NEW)	£275.00
6LQ Fonts, 180 cps DR	
Star LC24/200 Colour	£289.99
Hewlett Packard Deskjet 500	£359.99
Hewlett Packard Deskjet 500 colour	£559.99
Citizen 224	£214.99
Citizen 224 Colour	£239.99
Brother bubble jet HJ100 inc. 1 year on site	£249.99

AXE Starter Pack if bought with printer, printer stand - 500 sheets of continuous paper - one printer driver Only £9.99

PERIPHERAL POWER

1mb upgradeable A600	only £49.99
2000 sheets fanfold quality paper	£15.00
G.F.A. Basic	£9.99
Workstation - aluminium - space for drive	£39.99
T.V. Tuner for Philips 8833 MkII	£49.99
ZY-FI stereo speakers	£38.95
Unbranded disks 40 plus 40 cap lockable storage box	£24.99
Mega Mix Master	£39.99
Trackball - the ultimate feel	£29.95
Rendale Genlock 8802 with FREE switch box	£184.99
Replacement power supply	£39.99
Quickjoy TOPSTAR (for professionals) - microswitches, autofire	£21.99
Zipstick triple-fire - strongest on market	£14.99
Konix Speedking - brilliant - autofire - The Best	£12.99
Dust cover for 1500. Covers monitor, CPU & keyboard	£14.99
Tilt 'n' Swivel monitor stand with position locking	£17.99
External 8Mb RAM unit	£289.99
2Mb	£119.99

Name (Mr, Mrs, Ms) _____
Address _____
Postcode _____
Credit Card Please circle Card No. _____/_____/_____
Signature _____ Expiry date _____

PLEASE SEND ME	PRODUCT	PRICE	QUANTITY	POWER PRICE
All products are sourced from the UK - no grey imports - SO rest easy with your official UK warranties.			Carriage	
			Total Power Price	

ALL PRICES INCLUDE VAT

AND GIVE YOU THE PERFORMANCE

You've got a computer that creates gorgeous graphics, so why look at them in a blurred and distorted way? You need a monitor!

Jason Holborn and **Trevor Ablott** test all the options and pick the best.

Screen Play!

AMIGA FORMAT

118

SEPTEMBER 1992

THERE ARE VERY few extras that actually make your Amiga easier and more pleasant to use. Sure, a RAM expansion will enable you to grab larger sound samples and run massive applications, and a hard disk will make the Amiga faster and more usable. But if you ever sit in front of your Amiga for more than a few minutes at a time, a monitor can make a world of difference to your quality of life.

Why go for a computer with great graphics, then settle for blurred images and muddy colours? Why buy a word processor when you can barely read what you are writing on the screen and your letters give you a headache? When using the Amiga's video signal — squeezing it through a TV 'mud'ulator and squirting it at the telly — you're inevitably settling for second best.

It's obvious from the results of our recent reader survey that a large proportion of our readers plan to improve the quality of their Amigas' displays. If you're not one of the 48%

The line-up of monitors awaiting the Amiga Format screen test.



of readers who already own a monitor, you'll soon come to realise that it could be your best buy since the Amiga itself.

Choosing the right monitor is by no means a simple task. With such TV techie jargon as multiscan, dot pitch and SCART flying around, it's no wonder that many users get confused. To help you make the right buying decision, let's take a look at the three main

options that you face. If some of the special monitor jargon is initially baffling, don't worry — on the next page you'll find possibly the most comprehensive guide to monitor jargon ever published.

There are three types of monitor available: SCART TVs; single-scan monitors; and multisync monitors. To be able to make the right buying decision, it's important that you understand what the differences are between them.

WHY OUR TESTS ARE THE BEST...

To most of us, a monitor is a monitor — so we thought we'd get the complete picture by talking to a qualified TV engineer. Trevor Ablott has been tearing TVs and computer monitors to pieces for more years than he dares to mention and can certainly spot a good monitor from a dodo. Equipped with his trusty tool box and degausser, Trevor was let loose on a selection of monitors in the hope of sorting the wheat from the chaff.

Thanks to his considerable knowledge, we have drawn up a set of review guidelines by which to test even the most well-endowed monitor. To ensure fairness, Trevor did not test any of the monitors until they had been left on for at least quarter of an hour. As Trevor is keen to point out, this is very important because it gives the monitor time to settle down.

To avoid purity problems, all the screens were degaussed using an external degausser beforehand. A degausser is a piece of equipment used to correct purity problems caused by magnetic fields generated by such things as hi-fi speakers. Finally, all the monitors were tested using VTools, a PD program that produces a variety of video test images.

After degaussing, all the monitors were checked for purity, pin cushioning, convergence and striations — these terms are explained in the jargon-busting section on the right. Also, the design of the case itself, ease of use and quality of construction are taken into account.

SHOPPING ADVICE

If you're looking for a monitor, keep these all-important points in mind.

SUITABILITY — very important when choosing a monitor. If you're the kind of person that uses an Amiga for nothing more than playing games, then a SCART-equipped TV will probably be more than adequate. Although it won't provide the best quality pictures, it's still on a par with the kind of video screens used in arcade machines.

Multisyncs are really only of benefit to professional users or those of you who spend a lot of time running applications that work in interlaced screen modes — DTP, CAD, solid modelling and so on.

For the rest of us, a standard single-scan monitor is the best bet because it provides the best price-versus-performance ratio of the three types of monitor available.

SCREEN MODES — although virtually all multisyncs support the new ECS screen modes (hi-res, super hi-res, productivity and the like), some cannot handle standard Amiga screen modes. If the software you want to use does not support productivity mode, then you will need a flicker fixer



MONITOR JARGON UTTERLY BUSTED

CONVERGENCE - all colour displays contain three 'guns' that fire electrons at the screen to form the picture on a TV or monitor. One gun fires red light, one green, and one blue. If the guns are not lined up correctly, you will get coloured edges appearing when two vertical blocks of colour are placed side-by-side. This can best be viewed with a series of grey scales. If the convergence is bad, you will see a coloured hue appearing between the two blocks.

PURITY - when looking at a screen that contains just a single colour, the intensity of the colour should be equal throughout. Purity problems can be caused by the screen being magnetised by the monitor's own loudspeakers, which produces dark blotches. As a general rule, always keep TVs and monitors away from strong magnetic fields (speakers, for example).

DEGAUSSER - a magnetic coil with which a screen can be de-magnetised (de-gaussed) to sort out purity problems caused by strong magnetic fields.

PIN CUSHION - ideally, the visible area of the screen should be a perfect rectangle, even when the screen display is stretched to full width. If the monitor is said to have a pin cushioning fault, however, the sides of the screen will be warped inwards.

SHADOWMASK - the shadowmask is a technical term for the screen that the image is drawn on to by the electron guns within the tube. The screen is made up of a mesh that allows the electrons to come through and hit the screen in a fixed pattern.

RESOLUTION/DOT PITCH - the dot pitch of a monitor describes the shape and the size of the holes in the shadowmask mesh. The smaller the dot pitch, the higher the definition of the image. Dot pitch can range from 0.5mm to as little as 0.21mm.

LINE TIME BASE - the line time base is the time it takes for the dot produced by the electron gun to scan across the entire width of the screen producing a single scan line.

STRIATIONS/LINE RINGING - striations are vertical lines (normally on the left-hand side of the screen) that are caused by inadequacies in the line time base.

SCART/EUROCONNECTOR - a Standard Connector for Audio Radio and Television (SCART) is a standardised connector for feeding RGB/composite and audio signals to a TV or monitor.

FREQUENCY/SYNC - all video signals contain two synchronisation signals for the horizontal and vertical time bases which tell the monitor how fast it should horizontally and vertically redraw the screen.

RGB - an RGB video signal is a signal that has been split up into its three colour components: red, green and blue.

COMPOSITE - unlike RGB, a composite signal contains all colour, sync and audio signals combined into a single signal.

RF - used by televisions, RF (radio frequency) is a type of composite signal that was devised specifically for transmission through the airwaves.

Like all things in life, each has its advantages and disadvantages.

Most people, as soon as they buy an Amiga, plug it into the telly via the TV modulator included with the Amiga.

The modulator translates the Amiga's RGB video display signal into an RF (radio frequency) signal, which the TV then has to translate back to RGB again before it can display it.

to enable the multisync to display them. If the multisync can support a horizontal frequency of approximately 15KHz and a vertical frequency of 50Hz, then a flicker fixer will not be required for standard screen modes.

CONNECTORS - Most multisyncs use a 15-pin 'D' connector that can only be connected to the Amiga using an adaptor cable. Commodore include a suitable adaptor with their multisyncs, but virtually no other manufacturers followed their lead. Even MicroWay's flicker fixer does not support the standard 15-pin 'D' connector, so an adaptor cable will be needed.

play it. All this messing about with the signal degrades the picture.

The first way to improve your picture, therefore, is to cut out the TV modulator. Once that's out of the way, there is no good reason why you shouldn't use your telly as a monitor.

Your secret weapon is a thing called the SCART connector (an acronym for the less than wieldy monicker 'Standard Connector for Audio, Radio and Television'), often referred to in TV instruction books as a Euroconnector. Most modern TVs have one or two of these attached. All you have to do is get a cable from your computer dealer to connect your Amiga's RGB socket to the telly's SCART socket, and you're away.

Many portable TVs are now being fitted with SCART sockets, so these make a viable alternative to a computer monitor. And, of course, they mean you can switch to Neighbours if you wish. We're reviewing several SCART-equipped portable TVs here.

Next up we have single-scan monitors, which are currently the most commonly available. Such monitors are often designed specifically for the Amiga and are also capable of taking a direct RGB signal. They are far and away the most popular monitors for the Amiga.

Despite the fact that they work in basically the same way as a SCART TV, single-scan monitors give a slightly better quality of picture because they use better quality tubes — the tube is the glass bit on which the picture is displayed. Not only that, but a monitor is designed specifically for handling RGB signals and therefore is optimised for this task.

For the ultimate in picture quality, you need a multisync monitor — a device capable of displaying RGB signals that have different sync speeds. Most multisyncs will be able to detect the sync speed of the display signal that the computer is putting out and switch to that speed automatically.

Single-scan monitors are more popular simply because most of us have no need for a monitor that runs at different speeds. A TV picture runs at 50Hz (50 cycles per second), which means the picture changes 50 times each second. All the normal Amiga screen modes do the same.

If, on the other hand, you want to use the new super high-res and productivity modes of the Amiga's enhanced chip set to do detailed professional work, or you want to use a flicker fixer to remove the irritating flickering of interlace mode, you need a multisync.

Multisyncs generally produce better quality images because the tubes are better again. VGA and S-VGA monitors are very similar to multisyncs, but are often limited in their frequency range although they too can often be used with the Amiga.

Multisyncs and VGA monitors have one big disadvantage though — they are designed primarily for Macintoshes and PCs, so they don't generally have built-in speakers. You would need a separate amplifier and a set of speakers, to listen to the sound track of your favourite games, although you'll get good results by connecting your Amiga to your hi fi.



Book TV

Philips ■ £249.99

If you're buying for a style-conscious child, this could well fit the bill. Gone is the trad box design that we've come to expect from TV manufacturers and in its place is a very stylish case that is sure to satisfy even the most discerning fashion freak.

Cased in moulded jet-black plastic, the Book TV resembles a half-open book with the pages fanned out to form the rear of the TV. Moulded into the front face of the Book's 'cover' is a 14-inch grey tube

Stylish and unusual to the point of being weird, the Book is the second in Philips' designer 'Your TV' range which aims to appeal to fashion-conscious youngsters by looking very different.

covered by a piece of glass that is actually a polarised screen filter which helps the Book to cut down on glare while maximising the contrast. This can be particularly useful when using the Book to display interlaced images — the filter reduces flicker to an almost acceptable level.

Below the screen are a number of push-button controls divided into two separate groups. On the left-hand side are the usual volume and channel controls; on the right is a menu button which brings up a series of on-screen controls enabling you to alter the brightness, contrast and colour of the image. Also included is a built-in headphone socket, which is ideal for keeping all those thumping game soundtracks to yourself.

At the back is that all-important SCART connector, by which the monitor can take an RGB signal direct from the Amiga. Under normal circumstances, the Book behaves exactly like a conventional TV, but as soon as an RGB signal is fed to the TV, the RGB signal overrides the TV picture and the Book turns into a monitor.

Considering that the Book uses a conventional tube, the overall picture quality is very good indeed. Colours are crisp and bright and the screen purity is surprisingly good. Unlike most SCART TVs, the picture geometry shows virtually no sign of pin cushioning whatsoever and striations are kept to a minimum.

There were signs of slight convergence problems, but this is to be expected

from a low-cost tube. Surprisingly, the Book handles very high resolutions well, although lines of text do become somewhat unreadable on a SuperHiRes interlaced screen.

The quality of sound from the Book's pair of stereo speakers is very good, with plenty of bass and high-frequency response (even at higher volumes). Sound capabilities are some of the best that I've heard from a monitor — they're certainly a lot better than the Commodore 1084S monitor.

If you're after a TV that can produce a decent display for your Amiga and you want something unusual, then look no further. Sound and picture quality are excellent.

Book TV

CONSTRUCTION ●●●●

A very solid and well-designed case, although it could prove to be difficult to clean.

PICTURE QUALITY ●●●●

Not on par with a decent monitor, but definitely one of the better TV/Monitor combinations.

SOUND QUALITY ●●●●

Plenty of bass and loads of high-end response even at high volume.

VALUE ●●●

You are paying extra for the trendy design.

AMIGA Verdict 85% FORMAT

AMIGA FORMAT

120

SEPTEMBER 1992

TV monitors

If you need a TV and a monitor but can't afford both, then a TV monitor could be for you.

Jason Holborn tests the market leaders.



The Cube

£279.99 (15"),

£329.99 (17") ■ Philips

From the same stable that brought us the Book TV comes the Cube TV, another classic from Philips that is as odd-looking as it is impressive. Sporting a case design that would look more at home on the back of a train carrying nuclear waste, the Cube TV continues Philips' recent attempts to make

Small and black, and really quite good. The Cube from Philips.

the average TV monitor look a little bit more exciting.

As a TV, the Cube is certainly a mean performer. Unlike all the other TV Monitors reviewed here, the Cube is the only one to support Teletext, something that is more of a necessity these days than a luxury. Teletext — and indeed TV channels — cannot be accessed while the Amiga is feeding the Cube an RGB signal, simply because the RGB signal from the Amiga bypasses the TV tuner. Like all TV monitors, the Cube is fed its RGB signal via a SCART connector.

One very nice aspect of the Cube TV that it shares with NEC's MultiSync 4FG is the use of an FST (flatter, squarer tube), which helps to cut down on the amount of reflections that the screen produces. Flat tubes also produce an image with much better geometry, especially when the tube is of the quality that we've come to expect from Philips. Thankfully the Cube certainly doesn't disappoint — although our review sample showed slight ghosting (the faint repetition of an image), purity was exceptional, image geometry was as near as dammit and convergence virtually A1.

Philips have certainly gone to town with the Cube's sound capabilities too. Mounted into the top of the Cube's casing is a subwoofer (no, that's not a miner's dog). This is a high performance speaker that gives the Cube what is possibly the

best bass response of any monitor. Though the sound is still a little 'plasticky', it's still miles better than any of the other monitors.

Philips have done it again. Not content with producing the best Amiga single scan monitor and a very capable TV monitor in the shape of the Book TV, the Cube is the best TV monitor money can buy.

Although the image quality is not perfect, the Cube pushes the TV monitor ilk to its very limits. If you want a TV that can also handle your Amiga's output, then look no further than the Philips Cube.

The Cube

CONSTRUCTION ●●●●

Solid and extremely well designed, the Cube is a joy to behold.

PICTURE QUALITY ●●●●

Apart from the slight ghosting problems, the Cube's picture quality was very good indeed.

SOUND QUALITY ●●●●●

Thanks to that built-in subwoofer, the Cube is bassier than MC Hammer.

VALUE ●●●●

The Cube may seem expensive, but it offers all the features you could expect.

GOLD 90% FORMAT

Wordworth

a writer's dream

v1.1

The graphical nature of Wordworth® makes producing documents faster and easier. The WYSIWYG display shows exactly how your printed document will look, different fonts, styles and sizes, headers and footers, graphics and so on.

Commands are grouped under a series of pull-down menus, accessible either by the mouse or keyboard. Frequently used commands have on-screen icons, including Help, should you need it.

Experience the look and feel of the new and exciting WB2 (even if you use WB1.3). Each document is a separate multi-tasking window, which means you could for example, print one document while editing another.

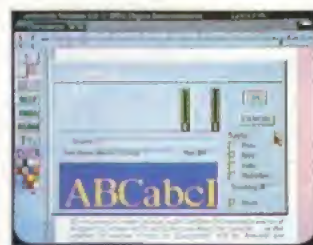
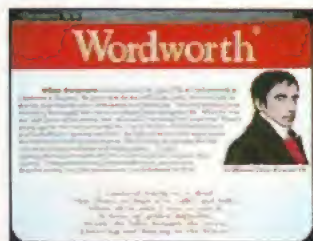
Digita's® innovative *Human Interface Protocol*™ is incorporated setting a new standard in speed, style and elegance. "It *HIP*™ system is intuitive and a pleasure to use." – thank you Amiga Shopper, it's nice to be appreciated.

Graphics have always been the Amiga's strong point. Now it's better than ever. Pictures from Deluxe Paint can be placed in a document, and then sized, scaled and dragged (text automatically reformats around the image).

Wordworth's enhanced fonts will give you the very best printed quality. You can also print special symbols, such as boxes, arrows and so on. Better still, you can mix graphics, Wordworth's enhanced fonts, Amiga fonts, Colorfonts and your printer's own internal fonts, all on the same page. There's even a driver for Postscript printers.

You needn't worry about your existing information – Wordworth will let you open documents from most word processors, including Kindwords, Protext and Wordperfect (you can also mailmerge with Superbase).

When Amiga Format said "a new word processor that will give the rest of the world a run for its money" they weren't joking.



Wordworth is written in the UK by Digita. Which means you'll be using an English Collins spelling checker and thesaurus, and you'll know where to come for professional support.

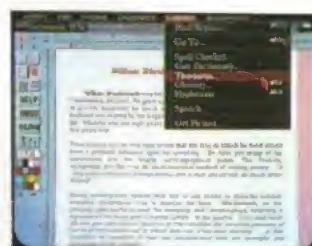
The only way to really appreciate Wordworth is to use it. Phone 0395 270273 for more information or, write to Digita, FREEPOST, Exmouth EX8 2YZ.

Wordworth costs £129.99, which includes VAT, postage and packing; and when purchased from Digita, comes with a 7 day money-back guarantee.

If you already own a word processor, for a limited period only, you can trade-up for just £89.99 by returning your original disks to Digita with your order.

Summing up, Amiga Shopper said: "Pounds-per-feature no other Amiga word processor comes close. Wordworth is what every owner of Kindwords would wish they had." Dreams become reality with Wordworth.

Machine support
Written specifically for the Amiga
Fully supports WB V1.3 and V2.00
All medium or high resolution modes
(mono and colour)
Requires 1MB of memory



DIGITA
INTERNATIONAL

software that's right™

Wordworth is available from John M. Simon, Virgin, P.O. Box 100, Exmouth, Devon, and all good computer retailers or to the trade through Columbus, Com, H&B Marketing, ISET, Lazer, Lemnos, Pericos and S&L.

Digita International Ltd Black Horse House Exmouth EX8 1JL ENGLAND Tel 0395 270273 Fax 0395 268893

— A member of the Digita group —
Digita, the Digita logo, Wordworth and the Wordworth logo are registered trademarks, and *HIP*, *Human Interface Protocol* and software from 1991 are trademarks of Digita Holdings Ltd.
All other trademarks and their owners are acknowledged. Sold subject to standard conditions of sale S & C/1.



CBM 1084S

£299.99 ■ Calculus

Commodore's original and best monitor has undergone major design changes over its seven year life. The latest model has the same styling as its predecessor, the 1084.

The plastic colour has changed to suit the A600's lighter cream, although it still looks just as good with anything from an A500 to an A3000.

The 1084S's connectors are all exactly the same as those on its forbear - it takes an RGB signal through the now standard nine-pin 'D' connector (Commodore supply an appropriate lead), but it can also display a composite signal through a conventional phono plug.

Like all Commodore monitors, the 1084S's internal components are not made by the company - it's actually a re-badged Philips monitor. As a result, it shares virtually all of the facilities offered by Philips' CM8833 Mk2. Unfortunately, it often seems as if Philips are simply using Commodore as a dumping ground for sub-standard tubes - every single 1084 I've ever seen (and I've seen a few in my time) was not as good in terms of picture quality as its Philips equivalent.

Our review model is definitely one of the better examples, but it too shows signs of slight purity and convergence problems and remains slightly out of focus, even after playing around with the contrast controls to get the best image.

One thing that is very nice about the 1084S are the controls. Now Commodore has got its corporate act together, the 1084S is very well designed, with all the controls located in a very sensible and easily-accessible front panel. Unlike the controls on the 1950, they are also very precise.

If you are loyal to Commodore and would never consider buying anything other than a Commodore monitor, then the 1084S is still a good buy. Although getting a decent one is still a rather hit-and-miss affair, the 1084S is a stylish and well-built monitor.

CBM 1084S

CONSTRUCTION ●●●●

Not quite as solid as some of the other monitors, but still a well-built box.

PICTURE QUALITY ●●●

Slightly out of focus, but acceptable.

SOUND QUALITY ●●●

Bass sounds are a little weak, but high frequencies are handled well.

VALUE ●●●

All in all this is rather an expensive buy, especially when you compare it to the Philips.

AMIGA
Verdict
FORMAT
80%

Single-scan monitors

For most people, a standard monitor is the best bet. **Jason Holborn** picks the choicest...



CBM 1085S

£299.99 ■ Calculus

Although the 1085S is actually a relatively new arrival on the scene, I must admit that I'm slightly disappointed to find that it is actually exactly the same monitor as the CBM 1084S.

Even after checking through the specifications of both monitors, I can find no difference between the 1085S and the older 1084S, apart from the badges on the front of each and their slightly differing shades of cream-coloured plastic.

I can't quite understand Commodore's reasoning behind the 1085S - perhaps they feel that existing users who own Amigas with a slightly darker shade of cream won't appreciate the lighter colour of the 1084S. If you can come up with a better reason, then answers on a postcard to the usual address please.

One thing that the 1085S does demonstrate, however, is how two monitors that seem exactly the same can end up so different in picture quality. Although it has good colour purity, the review model suffers badly from pin cushioning, is slightly out of focus and the image is warped terribly in the bottom right-hand corner of the screen. All of these problems could easily be corrected by an experienced TV engineer, but then you don't expect to have to send your brand new monitor off for repair in the first place.

The faults of the 1085S demonstrate how monitors that are exactly the same can be so different. TV manufacturers

quote a 10% difference in tube quality either way - so you could either end up with a monitor that is some way better than average or one that is totally naff. In this particular case, we were definitely sent a monitor that had slipped to the wrong side of that 10% margin.

To be fair, though, everything I've said about the 1084S should normally apply to the 1085S. Taking these occasional naff example as a fact of life, the 1085S is usually a very good single-scan monitor and if you end up with one that has the same sort of problems as our review model, send it back and ask for a replacement.

CBM 1085S

CONSTRUCTION ●●●●

Like the 1084S above, the 1085S is solid and well-constructed.

PICTURE QUALITY ●●●

Our review sample is frankly lousy, but offers good colour purity.

SOUND QUALITY ●●●

Bass is still a problem, but the high treble frequencies are handled well.

VALUE ●●●

Like the 1084S, the 1085S is rather expensive.

AMIGA
Verdict
FORMAT
75%

MONITOR AS A TV

If you desperately need the quality of a single-scan monitor, but you'd also like to use it as a TV, then there are ways of getting the terribly realistic antics of the Neighbours cast showing on a monitor near you. Philips (who already produce a single-scan monitor in the shape of the CM8833 Mk2) produce a TV adaptor that will literally convert your Amiga to a stand-alone TV. The adaptor takes the form of a flat black box that sits underneath the monitor. By plugging in an ariel and tuning the various channels on the adaptor, a TV picture can be fed to any monitor that will accept a standard composite signal. The adaptor can be used on all the single-scan monitors here.

If you've got a spare video recorder hanging around, you can already turn your monitor into a TV. Virtually all video recorders have some form of 'video out' connector, although most modern recorders combine the audio and video connectors into one via our old friend the SCART connector. Pop along to your local electrical store though and you'll be able to pick up a lead that breaks the SCART signal into separate video and audio phono connectors. Next, plug the 'video out' lead into the 'CVBS in' connector on the back of your monitor, connect the video to an ariel and switch the monitor to 'CVBS in' and, hey presto — one Monitor TV.



The most popular screens for Amigas, single-scan monitors, can be used as a straight TV too...



... simply use a TV adaptor or a video recorder and the right combination of leads...



... and sit back to enjoy TV soap operas on your Amiga monitor.



CM8833 Mk2

£229.99 ■ Philips

From the people that make the Commodore 1084S and the 1085S comes the CM8833 Mk2, the new improved release of the classic CM8833. Philips used to make two monitors for the Amiga (the CM8855 being the other), but they've now decided to concentrate their collective marketing efforts on a single model. Featuring some very swish styling, the CM8833 is undoubtedly still the market leader both in terms of design and picture quality.

Like the Commodore single-scan monitors, the CM8833 is fed its RGB signal through a nine-pin 'D' connector. Once again, Philips kindly supply an Amiga-compatible lead so you can start using your new monitor as soon as you get it home from the shops. If you buy a Philips TV Tuner, you can also run it on the CM8833 by feeding its output to the monitor's composite input at its rear. The CM8833 provides all the usual image controls, including brightness, contrast and colour, all of which are accessed from a series of controls at the front of the monitor.

In terms of picture quality, the CM8833 is miles better than the competition. Although our review sample has slight convergence problems (which is unusual), the focus is very good indeed giving a crisp and highly-detailed display. Colour purity is also very good thanks to the CM8833's superior grey tube.

Unlike the Commodore monitors, there's no pin cushioning to speak of. Virtually all the Philips monitors that I've seen have been of equal quality, so it

GAME ADVICE

From September, the Philips CM8833/II will be bundled with a free copy of the Gremlin racing game Lotus Turbo Challenge 2. If you're thinking of buying a monitor, it might be worth waiting a few days to get one of these packs. See News for more details.

makes you wonder why Commodore's monitors (all of which are produced by Philips) are so bad.

The sound quality of the CM8833 monitor is also very good, but bass is still a little lacking. Sound definition is better than that of the Commodore monitors, although low-frequency noises do still sound a little weak. If you really want to hear what your Amiga is capable of, you do need to plug the Amiga into a hi-fi system — I haven't yet seen a monitor that can produce the same kind of frequency response that even the cheapest of hi-fi speakers can handle.

Philips' monitors have always been known for their high quality and the CM8833 Mk2 is just another in a long line. If you're after a single-scan screen, you'd be a fool to buy anything other than a CM8833. The picture quality is considerably better than any of the competition. The CM8833 monitor earns its *Amiga Format Gold* award with flying colours.

CM 8833 Mk2

CONSTRUCTION ●●●●
Very solid and well-designed, the CM8833 is a little cracker.

PICTURE QUALITY ●●●●●
Apart from the slight convergence problem, the CM8833's picture quality is top notch.

SOUND QUALITY ●●●●
Bass is perhaps a little weak, but it still beats the competition hands down.

VALUE ●●●●
For a monitor of this quality, the CM8833 is worth every penny.



92%

MultiSyncs

For that ultimate picture quality, you need a multisync monitor. **Jason Holborn** visits video heaven.



7CM3209

£429.99 ■ Philips

Philips certainly likes to have its corporate fingers in every pie — not only do they market a TV monitor and a market-leading single-scan screen, but they also have something to offer the more demanding user, in the shape of their 7CM3209 Multisync monitor.

Sporting a design that is very similar to the original single-scan CM8833, the Philips 7CM is certainly no great looker, but it does the job well enough.

Our review sample monitor exhibits a couple of problems in the image department, including striations (vertical lines) and a slight shadowmask error, but on the whole the quality of its pictures is very good indeed.

This image-producing ability is good thanks to the 7CM's excellent 0.28 dot pitch. (The smaller the dot pitch, the better for the picture quality. The dot pitch can range from 0.5mm to 0.21mm in size)

Image contrast, purity and convergence is superb and the only fly in the ointment is its inability to handle standard Amiga screen modes, although running Workbench in productivity mode produces a very stable image.

To be able to use the standard screen modes, you would therefore need to invest in a flicker fixer to use this monitor.

Philips have always had a very good reputation among buyers and the trade for always producing monitors that are among the best quality on the market and the 7CM tested here certainly isn't going to tarnish that.

It is a shame, however, that this unit isn't able to handle the standard Amiga screen modes, but then few of the multisync monitors are able to do that.

The quoted retail price from Philips of £429.99 for the 7CM3209 does not have a great deal of relevance. Realistically you should be able find the 7CM discounted down to £329.99 at some outlets, so it definitely pays to shop around.

7CM3209

CONSTRUCTION ●●●

The design looks somewhat dated, but build quality is very good.

PICTURE QUALITY ●●●●

Apart from the slight shadowmask problem, the image is as steady as a rock.

FEATURES ●●●

Can't handle standard Amiga screen modes, but then very few multisyncs can.

VALUE ●●●●

It pays to shop around.

AMIGA
Verdict
FORMAT
76%

CBM 21FST Multisync

£2,197 ■ Commodore

Like all Commodore's monitors, the CM21 isn't actually a Commodore monitor at all. Instead, Commodore have simply re-badged the Ranger 21MP from a company called Aydin Controls. The 21 in the 21FST's name refers to the 21-inch screen, an absolutely colossal affair that has been designed specifically for CAD and DTP applications.

Like both the 1950 and the 1960, Commodore have modified the monitor to handle all Amiga screen modes, not just those designed for multisync use. As a result you can use it without a flicker fixer, although a separate adaptor is still required to mate the 23-pin output from the Amiga with the 21MP's 15-pin 'D' connector. The



CBM 1960

£563 ■ Calculus

Commodore's multisync offering comes in the shape of the 1960, a monitor designed specifically for the Amiga 3000 and any Amiga fitted with either Commodore's own Display Enhancer or a suitable third-party flicker fixer, like those marketed by MicroWay Europe and ICD. Like the 21MP reviewed above, the 1960 can handle all Amiga screen modes, including both ECS and standard modes.

The styling of the 1960 certainly isn't anything worth shouting about. Considering the monitor was designed for the A3000 — a machine with very modern styling — the 1960 is a step backwards. Its rather boxy design looks more like the sort of thing we've come to expect from IBM, a company certainly not renowned for its design finesse. Worse still, the contrast, colour and brightness controls are so cheap and erratic that even tapping them sends the



quality of design and construction is very good, although you pay the price for such a solid design — to call the 21MP heavy would be an understatement.

Picture quality isn't bad considering the size of its tube, but it's still far from perfect. For starters, the 21MP doesn't handle high-intensity colours particularly well because of a rather low emission level. Even at its maximum brightness level, whites look rather washed out.

Our review model hadn't been set up properly either — grey scales exhibit a noticeable blue tint. Convergence is also not particularly good in some places and colour purity is far from perfect.

Considering the price, I would expect a far superior picture and, although the quality of construction can't be faulted, picture quality certainly doesn't justify the monitor's price. If it had been under £1,500, I'd recommend it wholeheartedly, but it's just another case of delivering too little for too much cash.


CBM 21MP
CONSTRUCTION ●●●●

The 21MP is very solid and well-designed.

PICTURE QUALITY ●●●

Not bad, but hardly acceptable for such an expensive monitor.

FEATURES ●●●●●

The 21MP can handle productivity and standard Amiga screen modes.

VALUE ●●

For a price this substantial you'd be right to expect a much better picture.

AMIGA
Verdict
FORMIT

75%

screen image haywire. Considering the price, this isn't acceptable. Picture quality is also pretty lousy. Our review model shows convergence problems, focus is a little blurry and colour purity could be better. On the plus side though, the image shows plenty of contrast and brightness. Handling standard screen modes is a plus point and removes the need to purchase a flicker fixer.

Also available from Commodore for multisync freaks is the 1950, a monitor with almost the same features as the 1960 but in a slightly smarter case. Once again, the 1950 handles all Amiga screen modes, but has a better design and build quality. Sadly the 1950 is being phased out, but if you have a choice between the two, then go for this one. The 1950 has a better tube too — although there are pin cushion and convergence errors, purity is a lot better.

Both certainly aren't bad, but they're not in the same league as the Philips or NEC units. If you feel you have to stay loyal to Commodore, then either will do the job. For my money, I'd rather spend a little extra and buy a NEC.


CBM 1960
CONSTRUCTION ●●

Styling is a little old fashioned. Shame about the erratic controls.

PICTURE QUALITY ●●●

The convergence, purity and focus are not particularly good.

FEATURES ●●●●

The 1960 can handle all Amiga screen modes.

VALUE ●●●

If the picture quality was better, the 1960 would be a good buy.

AMIGA
Verdict
FORMIT

72%

MultiSync 4FG

NEC ■ £599



At the opposite end of the monitor scale comes the MultiSync 4FG, the latest in a long line of market-leading monitors from NEC. Having used the 4FG for a couple of weeks now, I am not surprised that NEC have such a good reputation in the multisync market — the 4FG is quite simply the best multisync I've ever seen.

Picture quality isn't the end of the story — its styling (which bears more than a passing resemblance to Apple Macintosh monitors) is bang up to date and the overall quality of workmanship is first-rate. All the 4FG's controls are hidden behind a flip-down panel, enabling you to access them without having to fiddle around the back (or side) of the case to try to get your fingers in the right place.

Although the 4FG doesn't like standard screen modes, the picture quality of a productivity-mode display is second to none. Purity is virtually 100%, image contrast is excellent and the image geometry stays true even when the image is stretched to full width (no pin cushioning). One nice feature is 4FG's built-in degausser — something that every monitor should have.

As it stands, though, the 4FG only handles a single Amiga screen mode (Productivity) and even then you'll need the enhanced chip set installed inside your machine to access even this. If you attempt to connect the 4FG to an Amiga that is producing anything other than a productivity display, all you'll get is a very pretty garbled mess. To display standard screen modes, A1500 owners will need a MicroWay FlickerFixer and A500 owners will need something like the ICD Display Enhancer. Both of these cost over £100, so non-A3000 owners should consider this extra cost when purchasing the 4FG.

Gripes aside though, it's no wonder NEC have such a good reputation for multisyncs — the 4FG is an absolutely smashing monitor that beats every competitor. It's a shame it doesn't handle standard screen modes — if it did, the 4FG could have been the first piece of hardware ever to achieve a 100% rating!

NEC 4FG
CONSTRUCTION ●●●●●

Both the build quality and design are first rate.

PICTURE QUALITY ●●●●●

Even under our rigorous tests, the quality of the 4FG's picture is almost perfect.

FEATURES ●●●●

It's just a shame that it can't handle Amiga screen modes without a flicker fixer.

VALUE ●●●●

A lot to pay for a monitor, and you'll need a flicker fixer, but it's the best you can buy.

AMIGA
GOLD
FORMIT

93%

Fixing The Flicker

Flickering interlaced screens can be a headache, quite literally.

Jason Holborn shows you how to put an end to the flickering misery.

IF YOU'VE EVER tried to run a program that opens a high-resolution screen, then you'll no doubt have already fallen foul of the perils of interlacing. To most of us, interlaced screens are very annoying and can cause considerable eye strain (unless you're wearing a decent pair of shades).

You may be wondering what possessed Commodore to build interlacing into the Amiga's display hardware in the first place, but, believe it or not, they had their reasons. Interlacing is very important within the video industry and therefore the Amiga's ability to generate an interlaced signal has helped it to capture the market with ease.

That's good for videophiles, but what about the rest of us? Thankfully, there are ways of reducing and even removing flicker. If you can afford a multisync monitor like those reviewed on pages 124/5 of this issue, then the first thing you can do is upgrade your machine to the new enhanced chip set and Workbench 2.0. The ECS upgrade includes a new non-interlaced screen mode called 'productivity' that can display a 640 by 480 pixel image without a flicker in sight. Unfortunately, you need a multisync to use it.

To remove the flicker from standard screen modes, a number of third party manufacturers produce flicker fixer cards that remove interlacing by re-synchronising the video signal. Again, you need a multisync to use these new non-interlaced screen modes. The A3000 already has a flicker fixer as standard, in the shape of the CBM Display Enhancer, but this is not available to those of us with lower spec Amigas. Coming to the rescue though are MicroWay Europe and ICD, both of which market flicker fixers.

MicroWay's Flicker Fixer (£125 from MicroWay Europe — 081-541 5466) has been available for a number of years now, but a



The MicroWay Flicker Fixer's big price drop has brought it within the average Amiga user's price range.

recent £200 price drop has finally brought it within reach of the average user. The Flicker Fixer comes in the form of a plug-in card for the Amiga 1500 and 2000 that connects to the Amiga via the video slot. Sticking out of the

back is a standard nine-pin 'D' socket that is used to channel the output from the card to a standard multisync monitor. As it stands though, the connector that the Flicker Fixer uses is non-standard, so an adaptor cable will have to be made up to enable your multisync to address the Flicker Fixer. Thankfully, MicroWay do include comprehensive information on the pin-outs of both the Flicker Fixer and a range of commonly-available multisyncs (although more recent models aren't included), so getting a cable made up shouldn't prove to be too much of a problem.

The Flicker Fixer converts all standard (non-ECS) screen modes, even those that aren't interlaced, to a higher sync RGB signal with a horizontal sync speed of 31.5KHz (double the standard speed). Flicker Fixer also removes visible scan lines, giving you an image that's as steady as a rock. It can also handle the Amiga's full 4,096-colour palette, giving access to some of the most beautiful Amiga displays that you're likely to encounter. MicroWay planned to produce an A500 version, but to date nothing has turned up.

A500 owners can put an end to Flicker problems with ICD's Flicker Card (£250 from Silica Systems — 081-309 1111). This internally-fitting card works in a very similar fashion to the MicroWay unit and provides much the same features. Once again, for serious A500 users, the ICD card is a must. ☺

Fixing Flicker on the Cheap

If your budget doesn't stretch to the price of a multisync and flicker fixer, then don't despair — there are still a couple of things that you can do to reduce flicker to a more acceptable level. Although it is impossible to remove flicker completely if you're running interlaced screens on a standard single-scan monitor or SCART TV, follow these simple guidelines and you'll find interlacing to be less of a problem.

SCREEN FILTERS — a screen filter provides a very low-cost method of reducing screen flicker without having to change your monitor or TV. They come in two forms: mesh filters and the more expensive polarised filters, both of which fit on the front of any standard TV or monitor to reduce glare.

Mesh filters use a very fine mesh that reduces glare by reducing the amount of light that reaches the eye. Unfortunately, mesh filters can often reduce the

picture clarity too, which makes them less useful. If you've got £30 to spare, then a much better bet is the more effective polarised filter — a piece of polarised perspex between you and the glare of your monitor. As any photographer will tell you, passing a bright image through a polarised filter reduces the glare of the image without affecting its contrast.

COLOURS — Interlace flicker can be reduced without having to spend any money, simply by keeping a watchful eye on the colours that an application uses. Generally, flicker can be avoided by using colours that have a low contrast, so avoid high-contrast colour combinations. In particular, try to avoid black on white. Instead, reduce the intensity of the white to a medium grey (RGB 888). By playing around with different palettes, you'll notice a considerable reduction in interlace flicker.

SUPPLIERS the monitors reviewed on these pages are available from:

Book TV	Philips	081-689 4444
Philips Cube TV	Philips	081-689 4444
Philips CM8833	Philips	081-689 4444
CBM 10845	Calculus	0543 416626
CBM 10855	Calculus	0543 416626
Philips 7CM3209	Philips	081-689 4444
CBM 1960	Calculus	0543 416626
Commodore 21FST	Calculus	0543 416626
NEC 4FG	NEC	081-993 9831
Philips TV Adaptor	Philips	081-689 4444

POWER COMPUTING

GVP Series 2 HD (A500)



Up to 8MB Fast RAM on board

52QMB 0MB £369	105QMB 0MB £479
52QMB 2MB £419	105QMB 2MB £529
52QMB 4MB £469	105QMB 4MB £579
52QMB 8MB £599	105QMB 8MB £719

Magneto Optical Hard Disk



New style case with built-in power supply
High power cooling fan
SCSI ID switch for instant ID switch
25-way & 50-way SCSI ports (one may used as thru port)
Compatible with all major SCSI controllers
Up to 128MB on each removable cartridge
Compatible in speed with many hard disks

128MB HD (internal fitting) £999
128MB HD (external cased) £1199
128MB 3 1/2" optical cartridge £39.95 each
SCSI controller card for A1500/A2000 £199

Compatible with Amiga, PC, Mac. A SCSI controller is required on the Amiga and PC.

Progressive Peripherals

Progressive 040/3000

28MHz Motorola 68040
Directly accesses 32-bit memory on A3000 Over
Four times the speed of a standard A3000
AmigaDOS 2.0 compatible
4MB £999

Progressive 040/2000

28MHz Motorola 68040
Built-in maths co-processor
Expandable up to 32MB of RAM
Software compatible with 68000 processors
4MB £1295

Progressive 040/500

For the Amiga 500
28MHz 68040 with processor
Up to 40 times the speed of the standard A500
4MB of high speed 32-bit RAM
68000 fallback mode
Easy to fit, no soldering
Upgrade to 33MHz and 8MB of high speed RAM
28MHz 4MB £849

Zeus 040/2000

For the Amiga 2000
Complete workstation on a single card
28MHz or 33MHz 68040 accelerator
Built-in floating point processor
64MB high speed 32-bit RAM expansion
Fast SCSI-2 DMA hard drive controller
28MHz 4MB £1899 33MHz 4MB £2189

Rembrandt

24-bit colour
16 million colours
8MB of high speed video RAM
Real time 24-bit image capture
Software supplied
A1500/A2000 £2699

Framegrabber v2.0

Amiga genlock
New software £399

Bare SCSI Hard Drive

52 Quantum £199	105 Quantum £299
-----------------	------------------

(suitable for GVP G-Force, GVP HC or Nexus HC)

GVP A530 Turbo HD (A500)

40MHz 68030EC accelerator
Optional 68882 maths co-processor
Up to 8MB 32-bit Fast RAM on board
68882 Upgrade kit £239

52MB 0MB £729	105MB 0MB £869	240MB 0MB £1069
---------------	----------------	-----------------

GVP Series 2 HD

Up to 8MB Simm RAM on board
Supports external SCSI devices
For A1500/A2000
Bare £199

52QMB 0MB £279	105QMB 0MB £479
52QMB 2MB £339	105QMB 2MB £539
52QMB 4MB £399	105QMB 4MB £599
52QMB 8MB £469	105QMB 8MB £749

GVP G-Force

68030 Accelerator board
68882 Maths co-processor

25MHz 1MB RAM	£579
40MHz 4MB RAM	£949
50MHz 4MB RAM	£1349
Hard drive mount kit	£35

Chips

256K x 4DRAM £4.50	4MB x 8Simm £150	8372 Father Agnus £39
1MB x 1DRAM £3.95	1MB x 8Simm £30	1 x + Zip £19.95
A3000 Static column RAM	£22	
Simm 32 x 1MB-60	£65	(suitable for GVP A500)
Simm 32 x 4MB-60	£234	(suitable for GVP A500)
2.04 Kickstart (chip only)	£39.95	
2.04 Kickstart ROM chip, workbench software, install disk 2.04, font disk & extras	£99.95	
With ROM share	£115	

Avideo 24

24-bit graphics for the A500
768 x 580 quality resolution
16.8 million colour frame buffer
Small easy to fit circuit board
Overlay Amiga graphics & animations
Fully genlockable
Runs on a standard A500 (1MB of chip RAM)
Comes with 24-bit paint package
Allows picture in picture £599 (includes TV Paint)

Nexus Hard Card

Up to 8MB RAM on board
For A1500/2000
Bare £199

52QMB 0MB £279	105QMB 0MB £479
52QMB 2MB £339	105QMB 2MB £539
52QMB 4MB £399	105QMB 4MB £599
52QMB 8MB £469	105QMB 8MB £749



Send your order to Power Computing Ltd, Unit 8 Railton Road, Woburn Road Industrial Estate, Kempston, Bedford MK42 7PN
Ring your credit card order through on **0234 843388 (10 lines)** or Fax **0234 840234** Technical helpline **0234 841882**

All prices include VAT, delivery and are subject to change. Specifications are subject to change without notice. Next day delivery £4.50 (U.K. mainland only), all trademarks acknowledged



The Amiga can pretend to be almost any other computer, but probably the most desirable is Apple's 'designer machine', the Macintosh. **Asam Ahmad** rubs his hands in glee as a touch of emulator magic turns his Amiga into a Mac...

AMax-II Plus

ReadySoft Incorporated ■ £324.99

THE WAIT IS over, AMax-II Plus, the long-awaited Apple Macintosh emulator for the Amiga 1500 and above, is here at last.

It's been on the way for a year now and we've been salivating constantly while waiting for it. Why? Because it promises features that could make it the best emulator ever created. Let's see how it fulfils that promise...

The first release of AMax, reviewed way back in *Amiga Format* Issue One, we described as "one of the best emulators available on any machine." Since then AMax has been through numerous upgrades. The improvements have mainly been in the software department, to improve the way in which it runs Mac software and to add extra features, such as direct hard-drive support.

The exciting new version involves both new hardware and a software upgrade (version 2.5) which can be used by existing AMax owners. The software makes full use of all available facilities in the Amiga, such as ECS and extra chip/fast memory, and compatibility is improved to allow the use of the new System 7 software for the Macintosh. The most exciting part, though, is the hardware upgrade.

The new hardware comes in the shape of a Zorro-II card, for plugging into any Amiga 1500/2000 or 3000 system, though, you still need to get hold of a set of 128K Macintosh ROMs to get it working.

One new feature is that you can now use Macintosh-format floppy disks in your Amiga drives. This was a major failing of the old system, because your software had to be transferred mainly by serial port access — the 'mini-disk' that you were supposed to set up and use for transferring software only held 272K so it was pretty useless.

Technically, reading Mac disks in an Amiga drive is a complex and very clever achievement — it uses a custom drive controller on the Plus board — and this is the reason AMax-II Plus took a year to perfect.

Macintoshes use variable speed drives — so depending on where the heads of the drive are, the disk will spin at a different speed to read the data at that point. Apart from that, the Macintosh uses a type of data encoding known as GCR, whereas the Amiga uses MFM encoding. The drive controller on the board allows the drives to overcome this difference.

AMax-II is available from Entertainment International 0268 541126

Amiga virtues aside, sceptics have always complained 'it's not a Macintosh'. Now you have the power to prove them all wrong. AMax-II Plus gives you that power.



The board comes with two RS-422 comms ports, which enable the connection of Apple printers, modems and MIDI equipment. Apple network software also works, so you can connect to other Macs and network devices.

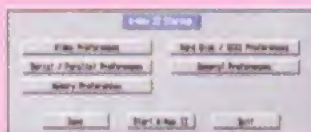
Another new feature is the ability to use Macintosh SCSI devices by connecting them to your SCSI hard-drive controller. This isn't restricted to the Plus board, and increases the usability of AMax-II no end, enabling the

addition of scanners and other devices to improve your Mac system.

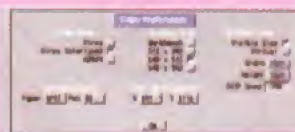
Setting up is fairly simple. The card just plugs into any vacant slot. The only delicate part is re-routing the internal drive cable to go through the AMax-II board, and then back to the Amiga motherboard.

The AMax-II Plus software allows you to configure how the emulator will work and

SET-UP SCREENS: TAKING CONTROL OF AMAX-II



This is the main control panel that allows you to select which parts of AMax-II you want to configure.



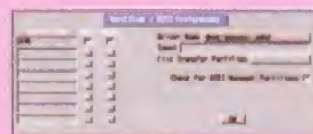
From this panel you can control the screen modes you want to use, plus create virtual screens.



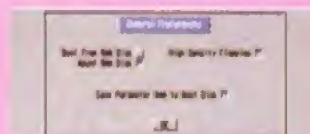
Selecting the emulation mode and choosing Modem or MIDI mode is a case of selecting a few buttons.



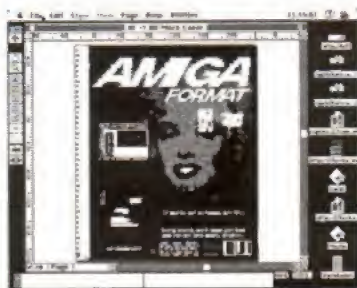
Memory control is very important for running large applications and must be set up correctly from here.



This is Hard-Drive/SCSI interface set-up screen. You will need to copy the relevant hard drive into DEVS:

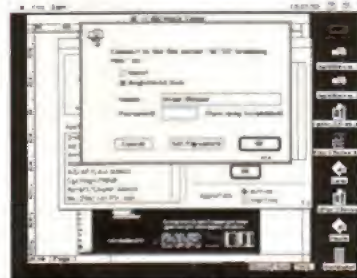


This panel gives you the option to control whether or not a RAM Disk is mounted and the use of HD disks.


SEE HOW SHE RUNS: MAC SOFTWARE COMPATIBILITY


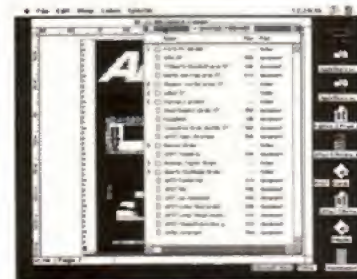
This screen was originally laid out on a Macintosh and used for the cover of Amiga Format issue 35. Here, QuarkXpress 3.1 is running happily on the Amiga, and has all the capabilities to edit and print any document as a Mac would.

Funnily enough, QuarkXpress on AMax-II Plus actually runs faster than PageStream or ProPage on the Amiga. The question is, why?



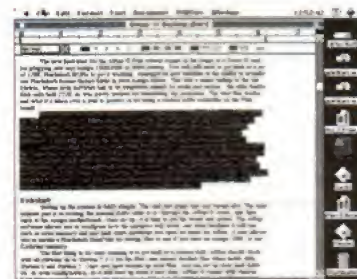
The emulation for connecting to AppleTalk or other devices directly, such as LaserWriters, is excellent because of the hardware that is incorporated on the board. Here AMax is connecting to one of our AppleShare

servers that houses files for common use by the magazine's editorial and printing departments.



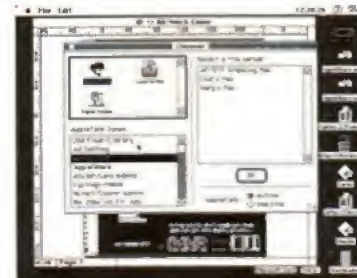
Here AMax is connected to the Amiga Format section of AppleShare. The board is able to transfer data to and from AppleShare perfectly, and at an admirable rate. Using AppleTalk on a local area network you can

connect to any other Macintosh, printer, fax device or other output/input devices with ease.



Running Microsoft Word 4 on AMax makes you wonder why Amiga software isn't written this way. The program runs quickly and is far more user friendly than most Amiga word processors, and after all, it is running on an

Amiga. What are Amiga programmers doing wrong that Macintosh programmers are doing right?



During the writing of Amiga Format, files are written on various Macs around the building. In order to make life easy, we use a system whereby files can be passed around the office without the need for disks. By using Public Folders (a

system extension that operates within the AppleTalk protocol) files can be copied from one Mac to another.

what facilities it will use, such as extra memory and hard-drive partitions you have set aside for AMax. It also allows you to mount a Macintosh RamDisk for saving files to and to use Kickstart memory if you have an A1000.

The first thing to do, once the emulator is running, is to get hold of a system disk. AMax should work with all systems up to 7.0.1 for the Mac, and it works fine on System 6 and 7. Once you have booted up your Mac, you can set up your hard drive etc. to your configuration, so it will boot up from it next time. AMax-II comes with various hard-drive controllers to enable you to use most of the popular drives and controllers around.

Software compatibility is excellent, with AMax happily running QuarkXpress 3.1, GreatWorks 2.0, Microsoft Word 4, in fact just about anything you throw at it. It won't complain, except when memory is running low.

Ideally you need at least 4Mb of memory for any serious use (AMax supports up to ten) although you can just about scrape through with one meg, but only if it is all chip RAM so that it is in one contiguous chunk (memory that's in one big free block). Theoretically, the only things that would not work are pieces of software that hit the hardware directly, such as some games that use custom chips. (Tetris works fine, though.)

AppleTalk emulation is superb. The AMax system connects to the network we have here at Future Publishing as if it is a real Mac. It happily accesses any of our LaserWriters and connects to our AppleShare network without any problems whatsoever. This feature of the board alone opens up a wealth of possibilities, and can make Amiga-Mac transfers so simple.

AMax can also use 1.76Mb high-density drives connected to your system, so that it can read high-density Mac-format disks. The drive controller is very comprehensive and so good it can even access MS-DOS disks through Apple File Exchange.

There is one problem, though, with the File Transfer software supplied with AMax. This is supposed to allow you to read AmigaDOS hard drive partitions or 880K AmigaDOS disks in the drives while still in Mac mode (similar to Apple File Exchange with MS-DOS 720k disks). The software seems to run OK, but crashes whenever it gets to the transfer control panel. ReadySoft are aware of this and say it will be corrected with the full-release version.

This really is the best emulator we've seen for the Amiga. It is just so compatible with the real thing, and behaves just as if you really were using a Mac. In fact the only things that remind you that you are not, is the Amiga keyboard and mouse. Every piece of software we put on test works beautifully on it.

There are restrictions to the board: the only display that you will ever have is a mono screen, but you can set up this screen to be larger than your visible screen size, and create a virtual scrolling screen up to 2,048 by 2,048 pixels in size. This can be useful for editing large pictures or pages in a DTP program.

The documentation is small and to the point, but doesn't explain everything as well it could; and there is no index, only a contents list, which can be a little frustrating.

It has taken time, but ReadySoft have created something very special to open the world of the Mac to Amiga users. AMax is a joy to use and it brings you the power of choice. The Amiga shouldn't have to emulate another machine to be considered 'professional', but it does. Very well.

AMax-II Plus

SPEED ●●●●
Runs as fast as your processor does, with very little system overhead. 68020/030 compatible.

DOCUMENTATION ●●●●
The manual is good but a little short. Some of the features need explaining in greater depth.

ACCESSIBILITY ●●●●●
If you've had previous Mac experience, you'll feel right at home here. The emulation is superb.

FEATURES ●●●●●
Full support for all SCSI Mac peripherals and the ability to read Mac disks in your drives.

VALUE ●●●●
For £324.99 plus the price of ROM chips, you've got a fully fledged Mac, on top of your Amiga.

91%

Orders Taken Until

NEW DELUXE PAINT III TUTOR VIDEO

Learn to get the best from NEW Deluxe Paint III. This video shows you how to design and execute your own Animations. Titles and so much more in a Step-By-Step, Easy-To-Follow way.

- Subjects covered include:
- ★ Screen Painting
 - ★ Zoom
 - ★ Colours
 - ★ Working with Text and Fonts
 - ★ Stencils
 - ★ Perspective
 - ★ Animation
 - ★ Video Titling etc, etc



RUNNING TIME: NEARLY THREE HOURS!!

Superb Value At ONLY £18.99 inc Post & Packing

"I was a little sceptical about the chances of taking a complete beginner to such artistic heights but I must admit to being wrong"
AMIGA COMPUTING, September 1991

DISKS...DISKS

FULLY GUARANTEED BULK DOUBLE SIDED DOUBLE DENSITY 135tpi 100% Certified - UNBRANDED USUALLY SONY, TDK or MITSUBISHI etc GUARANTEED AND SUPPLIED WITH LABELS DO NOT CONFUSE WITH INFERIOR UNCERTIFIED. PLEASE PHONE FOR LATEST PRICES.

20 DSDD.....£9.99	25 DSDD.....£12.99
50 DSDD.....£22.99	100 DSDD.....£42.00
	200 DSDD.....£82.00

Disk Boxes

Flip Top Disk Holder Holds 12.....	99p
Flip Top Disk Holder Holds 20.....	£2.99
40 Disk Holder, Lockable, Top Quality, Anti-static, with Dividers & 2 Keys.....	£3.99
80 Disk Holder, Lockable, Top Quality, Anti-static, with Dividers & 2 Keys.....	£5.99

Disks & Disk Box Offers

Pack of 20 in our Top Quality, Lockable 40 Disk Holder.....	£13.99
Pack of 50 in our Top Quality, Lockable 80 Disk Holder.....	£28.99

Posso Box

Drawer Type Box - Can be stacked horizontally or vertically - Holds 150 Disks.....	£16.45
--	--------

Disk Labels

Four Assorted Colours.....	£1.00
60 for.....	£2.00
200 for.....	£2.00

PRINTER RIBBON RE-INK

Simply open your plastic ribbon case, spray over the ribbon, replace the lid and leave for 24 hours. BETTER THAN A NEW RIBBON Guaranteed - Restores dozens of ribbons to new for just.....£11.99

AMIGA 1500/2000 PERIPHERALS

GVP 52Mb Fast Access Hard Drive with 8Mb RAM Board.....	£264.99
GVP 120Mb Fast Access Hard Drive with 8Mb RAM Board.....	£409.99
GVP - 2Mb SIMMS for above.....	£59.99
Fitted FREE if required	
COMMODORE A2300 Internal Genlock.....	£89.99
Amiga 1500 Unpopulated RAM Board.....	£84.99
With 2Mb SIMMS.....	£142.99
52Mb Quantum Hard Drive with SCSI Controller.....	£249.99

DISK DRIVES & EXPANSIONS

CUMANA CAX354 1Mb 3.5" Single disk drive - Enable/disable switch - Thru port - Power on Amiga.....£52.99

POWER PC880B DRIVE incorporates Anti-click Board, Blitz Back-up system software and built in Virus blocker.....£67.99

REPLACEMENT A500 Internal disk drive, fully compatible and with full instructions.....£41.99

MEMORY EXPANSIONS & SYSTEM UPGRADES 512K RAM Expansions with Clock and On/Off Switch.....£23.99

1Mb MODULE FOR A500 PLUS Gives 2Mb Chip Memory.....£44.99

KICKSTART ROMS

V1.3 Kickstart ROM.....	£29.99
V2.04 Kickstart ROM.....	£49.99

PC EMULATOR

K.C.S Power PC Board - Fits into RAM exp. slot under computer. Does not invalidate warranty.....£199.99

ADAPTOR for 1500/2000.....£64.99

OFFICIAL COMMODORE UPGRADE KIT Converts 1.3 Amiga to version 2.04 Workbench. Includes disks, manuals, ROM etc.....£89.99

NEW-POWER PC880B with Blitz and X-Copy.....£94.99

AMIGA 600 - 1Mb Chip RAM Module with clock, plugs into Trapdoor underneath the A600.....£54.99

AMIGA CONTROL CENTRES

These are the original and best manufactured by Premier Micros from Sheet Steel, with welded Seams and Epoxy coated to colour match the Amiga. Precision made to fit over the back of the Amiga to make a perfect platform for a monitor etc and improve the looks of the Amiga.

A500/A500 Plus Model - includes cables to re-route the mouse/joystick ports from the back of the Amiga to the right front side. With shell for external disk drive etc.....£45.99

A600 Model.....RRP £30.95. **Special Price £29.99**

C.D.T.V

Complete with Hatchins Encyclopaedia, Lemmings and Welcome CD Disk.....£399.99

C.D.T.V. Keyboard.....	£49.99
C.D.T.V. External Amiga Disk Drive.....	£79.99

DUST COVERS

Top quality Amiga Colour Dust Covers, Tailored, Monogrammed and with Bound Edges.

Protect Your Investment

Amiga 500 Keyboard.....	£4.99
Amiga 600 Keyboard.....	£4.99
Panasonic KN-P1124/1170.....	£4.99
Citizen 120D Printer.....	£4.99
Citizen Swift 9/24/124D.....	£4.99
Commodore Monitor.....	£4.99
Philips Monitor MK II.....	£4.99
Amiga 1500 Two Part Cover.....	£8.99
Star LC10 Printer.....	£4.99
Star LC200 Printer.....	£4.99
Star LC24/200 Printer.....	£4.99

AMIGA'S

OUR LOWEST AMIGA PRICES EVER!!! ALL OUR AMIGA PRICES INCLUDE FREE NEXT WORKING DAY DELIVERY

AMIGA A500 PLUS, ONE MEG CARTOON CLASSICS PACK

Latest pack from Commodore featuring: Kickstart V2 & Workbench V2.04, Built in 1 Meg RAM, TV Modulator & Mouse, plus Lemmings, Simpsons, Captain Planet and Deluxe Paint III. Our best price including Next day delivery.....**£369.99**

WHILE STOCKS LAST

NEW AMIGA A600

NEW COMPACT DESIGN - Kickstart/Workbench 2.05 Internal 3.5" Disk Drive & IDE Hard Disk Controller, Built in TV Modulator, Composite Video Output, Smart Card Slot, 2 joystick/Mouse ports. FREE Ability to use Memory Cards of 0.5Mb to 4Mb. Introductory price including One year On-Site Maintenance for In-Home Service & Deluxe Paint III and Free Game.....**£354.99**

ESSENTIAL ACCESSORIES PACK

Top quality 40 disk holder, 10 best quality disks with labels, quality mouse mat, mouse holder, tailored monogrammed dust cover. Special Price.....**£21.99**

Extra special price if bought with any Amiga.....**£19.99**

AMIGA 1500 STARTER PACK

Amiga 1500 Dual drive with 1Mb RAM, Mouse, Manuals and Amiga DOS, The Works - Platinum Edition, Deluxe Paint III, Home Accounts, Eh!, Toki and Puzzle. Total RRP £699.99.....**Auction Price £529.99**

AMIGA 2000 PLUS MS-DOS AT EMULATOR

Amiga 2000 Dual drive with Commodore A2286 AT Bridgeboard and 5.25" MS-DOS Floppy Drive. Total RRP £1.449.....**Auction Price £899.99**

AMIGA 2000 with 40Mb HARD DRIVE

Amiga 2000-Dual Drives, 1Mb RAM, Kickstart/Workbench 2.04 40Mb Fast Access Hard Drive, and Autoboosting Controller Card. SPECIAL PRICE including NEXT WORKING DAY DELIVERY.....**£689.99**

K.C.S. POWER BOARD

Fits into RAM Expansion Slot under Computer to give Excellent IBM PC Emulation. Runs Heavyweight PC Software. Fitted in seconds, does not invalidate warranty. As a Bonus also adds 1Mb Memory to Amiga A500. New A500 Plus give total 2Mb Chip RAM.....**£199.99**

Adaptor for A1500/2000.....**£64.99**

AMIGA 500 HARD DRIVES

GVP 52Mb Hard Drive PLUS	£330.99
8Mb RAM Board.....	£330.99
GVP 105Mb Hard Drive PLUS	£430.99
8Mb RAM Board.....	£430.99
GVP COMBO 40Mhz Accelerator PLUS	£689.99
52Mb Hard Drive PLUS 8Mb RAM board all in one case.....	£689.99
GVP - 2Mb SIMMS for above.....	£59.99
GVP 16Mhz PC286 Emulator - plugs inside GVP Hard Drive.....	£229.99

Fitted FREE if required

PRINTERS

We are CITIZEN SUPER DEALERS and Authorised to offer their Full 2 years Guarantee on all CITIZEN Products.

This Guarantee covers all parts and labour including Printer Head.

FREE WITH ALL OUR PRINTERS:

Exclusive Printer Starter Kit Comprising:

- ★ 200 Sheets Quality Paper
- ★ 200 Sheets Continuous Paper
- ★ 200 Tractor Feed Address Labels
- ★ 2 Metre Amiga Printer Cable

★ Special Amiga drivers disk to match your Amiga perfectly to any of our printers

Free next working day delivery on all Printers

CITIZEN SWIFT 9 COLOUR.....	£199.99
CITIZEN 224 COLOUR.....	£249.99
CITIZEN SWIFT 24 COLOUR.....	£299.99
CITIZEN PN48 Notebook Printer.....	£229.99
STAR LC20 MONO.....	£139.99
STAR LC200 COLOUR.....	£199.99
STAR LC24/20 MONO.....	£229.99
STAR LC24/200 COLOUR.....	£269.99
PANASONIC KXP1170.....	£149.99
PANASONIC KXP 1124i.....	£239.99

NEW PANASONIC KXP2180 Very high quality 9 Pin Colour Printer, 6 Near Letter Quality Fonts, Fast & Super Quiet.....**£249.99**

NEW PANASONIC KXP2123 Very high quality 24 Pin Colour Printer, 6 Near Letter Quality Fonts, 1 Super Letter Quality Font, Fast & Super Quiet.....**£299.99**

INKJET PRINTERS

HEWLETT PACKARD DESKJET 500	
Colour Inkjet Printer.....	£569.95
CITIZEN PROJET	£399.99
CANON BJ10EX Portable Bubble Jet Printer with 3 fonts, Cable etc.....	£249.99
CANON BJ10E Ink Cassette.....	£17.99
COMMODORE MPS1270 Ink Jet Printer Special Price.....	£129.99
COMMODORE MPS1270 Ink Cassette.....	£14.99
COMMODORE MPS1270 Cartridges.....	£14.99

REFILL INKJET CARTRIDGES - TWIN PACKS (easy load)

HEWLETT PACKARD/CITIZEN PROJET	
.....	Black £16.99
.....	Blue £18.99
CANON BJ300/330	Black £18.99

MONITORS

PHILIPS CM8833 Mk II Colour monitor, High Resolution, Twin Speaker Stereo complete with all leads and One Year on-site Warranty with FREE F19 Stealth Fighter Simulator.....**£209.99**

COMMODORE 1084S Monitor High Resolution Colour Monitor, Twin Speaker Stereo inc Leads.....**£229.99**

COMMODORE 1085 SD2 Stereo Colour Monitor.....**£229.99**

GOLDSTAR Colour 40 channel Monitor/TV with full remote control and includes Amiga Scart Leads.....**£179.99**

Genuine Philips Tilt & Swivel Monitor Stands.....**£16.99**

COMMODORE 1960 MULTI SYNC MONITOR Complete with leads to plug straight into the Amiga 500 Plus.....**£436.99**

MICROWAY FLICKER FIXER fits inside Amiga 1500/2000 for flicker free Graphics when used with Commodore 1960 Monitor.....**£99.99**

Please note that all our Monitors are official UK Specifications. We do not sell Grey Imports of any kind.

All our monitors include FREE next working day delivery

12.00 Midnight

You are welcome to visit our 1000 sq foot retail shop which is packed with Computer Hardware and Software. Make a day of it, in one of England's loveliest Old Towns.

AMIGA BOOK SPECIALS

Advanced Amiga BASIC	£16.95
Amiga Adv. System Prog. Guide	£29.95
Amiga BASIC Inside and Out	£18.95
Amiga C for Advanced Programmers	£28.95
Amiga C For Beginners	£17.95
Amiga Desktop Video Guide	£16.95
Amiga Desktop Video Power*	£24.95
Amiga Desktop Video Workbook*	£29.95
Amiga DOS a Dabhand Guide	£14.95
Amiga DOS Inside & Out	£23.95
Revised Edition with Disk	£23.95
Amiga DOS Reference Guide 3rd Ed.	£17.95
Amiga DOS Quick Reference	£8.95
Amiga DOS 2 Companion	£22.95
Amiga For Beginners -	
New Version on W/B 1/2 & 2.0	£12.95
Amiga Graphics Inside & Out	£29.95
Amiga Machine Language	£14.95
Amiga Printers Inside & Out	£28.95
Amiga Programmers Handbook Vol 2	£22.95
Amiga ROM Kernel Ref Manual 3rd Edition Devices	£32.95
Amiga ROM Kernel Ref Manual 3rd Edition includes and Autodoes	£34.95
Amiga ROM Kernel Ref Manual 3rd Edition Libs	£31.95
Amiga Hardware Reference Manual 3rd Edition	£25.95
Amiga 3D Graphics Programming in BASIC	£16.95
The Best Amiga Tricks and Tips*	£24.95
C: A Dabhand Guide	£14.95
The Commercial Games Programmers Guide	£11.95
Desktop Video Production	£13.95
Fast Guide to Arexx	£5.99
Get Most Out of Your Amiga Vol 1	£9.95
Get most Out of Your Amiga Vol 2*	£13.95
GFA Basic Interpreter with Disk	£19.99
Inside Amiga Graphics	£16.95
Kids and the Amiga - 2nd Edition	£14.95
Learning C: Programming Graphics on the Amiga	£16.95
Learning to Fly with Flight Sim	£12.95
Making Music on the Amiga*	£29.95
Mastering Amiga DOS 2 - Vol. 1 NEW EDITION*	£21.95
Mastering Amiga DOS 2 - Vol. 2 NEW EDITION	£17.95
Mastering Amiga Printers	£19.95
Mastering Amiga System	£29.99
More Amiga Tricks and Tips	£18.45
Screen Play 2	£9.95
Using AREXX on the Amiga Plus*	£29.95
Using Deluxe Paint - Second Edition	£18.95

* With FREE Disk

SERIOUS SOFTWARE

Wordworth v1.1 from Digita	£74.99
Scala 500	£89.99
Scala (Needs 1.5Mb Ram & Hard Drive)	£159.99
Gold Disk Office	£63.99
Pen Pal	£53.99
GB Route Plus	£59.95
Design Works	£57.99
Quarterback	£46.99
Quarterback Tools	£59.99
Home Accounts	£19.99
Home Accounts 2	£36.99
X-Backup Pro	£35.99
Pagesetter II	£39.99
Amos	£32.49
Amos Compiler	£19.49
Amos 3D	£21.49
Turbo Print Pro	£44.99
Easy AMOS	£25.99
Pagestream 2.2	£139.99
Final Copy v1.3 from (PEN PAL)	£45.99
ART DEPARTMENT PROFESSIONAL	£179.99
INTRO CAD	£49.99
PROFESSIONAL CALC	£129.99
PROFESSIONAL DRAW v2.0	£87.99
PROFESSIONAL PAGE v3.0	£109.99

SOFTWARE SPECIALS

Infofile Database	£29.95
Music Mouse	£14.99
Rombo RGB Colour Splitter	£59.95
Outline fonts	£99.99
Deluxe Print II	£34.95
Photon Paint	£9.99
Lets Spell at Home	£9.99
Photon Paint II	£24.99
GFA Basic Interpreter	£14.99
TV SHOW/TV TEXT Video Titler and special effects	
RRP £159.99	SPECIAL PRICE £49.99
AMIGA VISION Presentation and Multimedia Software	
RRP £111.99	SPECIAL PRICE £39.99
PERSONAL WRITE Amiga Plus compatible Word Processor with Spell Checker Ideal for beginner	£24.99
Megamix Masters by ROMBO	£29.99

FREE!!!

16 NIGHTS HOLIDAY HOTEL ACCOMMODATION

For a limited period only - all purchasers of a Printer or Computer will be sent, upon request, a Free 72 page colour brochure with accommodation vouchers. These entitle 2 people to stay up to a total of 16 nights in any of 250 hotels with accommodation FREE. All you have to pay are your meals (prices are listed in the brochure)

EDUCATIONAL SOFTWARE

Fun School 2 - 8 and Over	£12.45
Fun School 3 - Under 5	£15.45
Fun School 3 - 5-7 Years	£15.45
Fun School 3 - 7 and Over	£15.45
Fun School 4 - Under 5	£16.45
Fun School 4 - 5-7 Years	£16.45
Fun School 4 - 7 and Over	£16.45
ADI Maths	£19.99
ADI English	£19.99

KOSMOS

Answer Back Junior	£14.45
Answer Back Senior	£14.45
Fact File 500 - 20th Cent. History	£7.95
Fact File 500 - General Science	£7.95
Fact File 500 - Know England	£7.95
Fact File 500 - English Word	£7.95
Fact File 500 - Natural History	£7.95
Fact File 500 - World Geography	£7.95
Fact File 500 - First Aid	£7.95
Fact File - Spelling	£7.95
Fact File - Sport	£7.95
Fact File - Arithmetic	£7.95
Fact File - Association Football	£7.95
The French Mistress	£14.45
The Italian Tutor	£14.45
The German Master	£14.45
The Spanish Tutor	£14.45
Maths Adventure	£19.99

L.C.I.

Micro English (GCSE)	£18.95
Micro French (GCSE)	£18.95
Micro Maths (GCSE)	£18.95
Micro German (GCSE)	£18.95
Mega Maths (A Level)	£18.95
Primary Maths (3-12)	£18.95
Reading and Writing (3-8)	£17.95

MISC

Better Maths (12-16) (GCSE)	£16.99
Better Spelling (8-Adult)	£16.99
Lets Spell at Home - SPECIAL	£9.99

EXCLUSIVE

THE AMIGA TUTOR VIDEO

For new and not so new Amiga users - shows in clear graphic detail all you need to know to become proficient in using the Amiga

Subjects covered include:

- ★ Setting Up and Connections
- ★ The Workbench fully explained
- ★ How to customise the Workbench
- ★ Copying, Renaming and Formatting disks
- ★ The Notepad, Fonts, saving and printing
- ★ Clock, sizing and Moving Icons
- ★ Pull Down Menus and Scrolling Windows
- ★ CLI Directory Structure
- ★ Editing the Start-Up Sequence
- ★ Printer Set-Up and Preferences etc, etc



Don't struggle with the manuals - watch as we show you HOW - all for the cost of a game. 1000's Sold....Available only from AUDITION

ONLY £19.99 inc Post & Packing

"Excellent...a great help...Sensibly it teaches...you about the most practical areas - the ones you will need. Range of topics covered is wide and, above all, practical...Put together by people who know a fair amount about the Amiga" *AMIGA FORMAT, January 1991.*

"Excellent... simple answer to many tricky problems..I found the video excellent. May event each an old dog a few new tricks.. Certainly for anyone taking their first Amiga steps it's well worth the asking price. If only such a thing was available in my formative years!" *AMIGA COMPUTING, February 1991*

ACCESSORIES

ZY-FI Amplified Speaker System New Twin Speaker each with three drivers to give full Hi-Fi Quality Sound from your Amiga. Supplied with Power Supply	£39.95
TRACEY Vide Drawing Aid. Attaches simply to side of Mouse and features precision moulded crosshairs to enable you to trace any picture into your graphics package. With full colour instruction manual	£6.95
AUDIO LEADS - connect your Amiga to your Hi-Fi	
3 Metre Stereo Audio Leads	£4.99
5 Metre Stereo Audio Leads	£5.99
Quality Soft Mouse Mat	£2.99
Mouse Bracket (to hold mouse)	£1.99
3.5" Disk Drive Head Cleaning Kits	£1.99
Twin Joystick/Mouse Extension Lead	£5.99
Joystick/Mouse "Y" Lead	£5.99
Joystick/Mouse Auto Sensing Switch Box by Robo	£16.99
Aerial Switching Boxes, fit in TV lead to eliminate constant disconnection and wear on TV	£3.99
Surge Protection Plugs	£11.99
Printer Cables	£7.99
Modulator Extension Lead Stops Your Modulator falling out!! Plugs into Modulator port and Modulator and allows Modulator to sit snugly behind the Amiga instead of protruding. Approx 12" cable length	£10.99
Naksha Mouse with FREE Mouse Mat, FREE Mouse Holder and Operation Stealth Game	£20.99
SQUIK Mouse - same spec as Naksha but without extras	£13.95
Techno-Plus Mouse Microswitched 300DPI	£17.95
ZYDEC Handy Scanner	£94.99
POWER Scanner	£94.99
GENETRAC 200 DPI Trackball	£44.99
GENIUS Triple Mouse High Quality	
300 DPI Mouse with FREE Mat and Pocket	£18.99
GVP DSS8 - Digital Sound Studio	
Sound Sampler	£57.95
MIDI CONNECTOR, MIDI LEADS & FREE MUSIC X JUNIOR	£39.99
QUICKJOY Foot Pedal	£24.95
VOLTMACE DELTA 3A Amiga Keyboard	£12.99
GRAVIS CLEAR - THE Keyboard	£36.99
ZIPSTICK SUPERPRO Amiga Joystick	£12.99
SIGMA RAY (Prints Graphics - Also Fire)	£13.49
FREEDOM CONNECTOR - Plug in your own Joystick *Such item becomes Intra Red Mouse	£19.99
MOLSE PADIMOUSE POCKET - Gift Pack	£4.99
OPTICAL MOUSE	£34.99
POWER COLOUR SCANNER	£229.99



Dept AMF, 35 Broad St, Stamford, Lincs PE9 1PJ
Tel: (0780) 55888
Shop Hours

(0780) 720531
out of hours



- ☎ Telephone direct to our mail order hotline. All major credit cards accepted. Quote your number and expiry date. Same day despatch
- ✉ Send all forms of payment made payable to Audition Computer Services. With your order please send your name, address and daytime telephone number. Along with your detailed order requirements. Goods will be sent by post, free of charge immediately after cheque clearance.
- 🚚 All our prices include FREE standard delivery on all orders over £15.00. Next working day delivery only £2.50 extra on all orders over £100.00

ALL OUR PRICES INCLUDE V.A.T. MINIMUM ORDER £15.00 else surcharge £2.00

GOLDEN IMAGE NAKSHA ABACUS SEGA DIGITA PANASONIC JVC MITSUBISHI EPSON CANON TOSHIBA HEWLETT PACKARD GOLDSTAR ZYDEC

We'll show you



Introducing the very first Amiga Format Special Edition: The Complete Software Guide.

More than just a magazine, it's a vital resource for any Amiga owner. More than 1,000 software titles are described and rated by the same team of experts that makes Amiga Format the most authoritative magazine you can buy.

Just look at what you get:

- **The most comprehensive game listing ever. More than 750 titles reviewed and rated, including the Amiga Format all-time Top 20 games.**
- **Full coverage of the graphics software scene, plus essential explanations to help you make the right buying decision.**

- **Business, CDTV, DTP, video, comms, utilities and much, much more – literally hundreds of software titles covering every aspect of computing on the Amiga.**
- **The all-time Top 50 public domain and shareware titles for those on a budget. Including utilities, games, demos and creative packages to help you get the most out of your Amiga.**

ou something



And it's more than just a software catalogue – it's an authoritative buyer's guide too. Using their skill and judgement, our experts have identified all the top performing programs so you can be sure of making the right buying decisions.

The Complete Software Guide is an essential purchase for any Amiga owner, don't miss out. At a newsagent near you soon.

On sale
August 27

Only £3.95





Computer

MALL

A CORPORATE SUBSIDIARY OF WTS ELECTRONICS



FOR A CORPORATE STYLE SERVICE WITH TECHNICAL BACKUP CHOOSE COMPUTER MALL
FOR TOTAL PEACE OF MIND



NEW A600 WITH ON SITE MAINTENANCE

- 50 FREE DISKS
- 100 CAPACITY DISK BOX
- MOUSE MAT
- JOYSTICKS X 2

JUST £399

PHILLIPS 8833 MKII MONITOR

+ FREE LEAD + FREE F19
GAME + ONSITE
MAINTENANCE

JUST £219

GVP AUTHORISED DEALER

52 MB.....A500	£359
52MB.....A500 + 2MB	£399
52MB.....A500 + 4MB	£434
52MB.....A2000	£279
52MB.....A2000 + 2MB	£319
52MB.....A2000 + 4MB	£354

**HIGH TEC
COMPUTER
DESK STAND
£69**

**A500 WORKSTATION
£39**

STAR PRINTERS

LC 20 9 PIN MONO	£144
LC 200 9 PIN COLOUR.....	£205
LC 24-200 24 PIN MONO	£229
LC 24-200 24 PIN COLOUR..	£294
SJ48 BUBBLE JET	£249

CUMANA EXTERNAL A500 DISK DRIVE£48.00
DISK BOX 100 CAPACITY LOCKING£4.99

UPGRADES

KICKSTART 2.04 KIT.....	£79
KICKSTART 2.04 IC.....	£38
KICKSTART 1.3 IC.....	£28
ROM SWAPPER (SWAPS BETWEEN KICKSTART 2.04 AND KICKSTART 1.3)	£19
HIGH RES DENISE (ACTS AS FLICKER FIXER ON HIGH RESOLUTION MONITORS)	£33
8372A FATTER AGNUS	£35
8375 PRO AGNUS (GIVES 2 MB OF CHIP MEM WHEN FITTED TO A500/A2000)	£139
512K A500 PRO RAM	£16
512K A500 PRO RAM + CLOCK	£19
A500 + 1MB EXPANSION	£39
A600 1MB EXPANSION.....	£49
1MB x 4 SIMMS.....	£22
256K x 9 DRAM	£3

SUPRA

RX500 2MB	£148
RX500 4MB	£204
RX500 8MB	£299
2400 MODEM.....	£84
2400 + MODEM..	£129

**FIXED PRICE
COMPUTER
REPAIRS
PHONE FOR
DETAILS
0582 491949**

MAIL ORDER MADE EASY
.....
SIMPLY PHONE OUR ORDER HOTLINE
QUOTING YOUR VISA / ACCESS
NUMBER ALTERNATIVELY SEND YOUR
ORDER ACCOMPANIED BY CHEQUE/PO
AND RETURN ADDRESS AND
WE WILL DO THE REST

**SALES HOTLINE
0480 471117**

**WHY NOT CALL AT OUR PLUSH
NEW SHOWROOM IN ST NEOTS
OR AT YOUR LOCAL STORE AND
VIEW OUR EXTENSIVE RANGE
OF COMPUTER EQUIPMENT**

**PLEASE ADD £2.50 P&P
£5.00 COURIER**

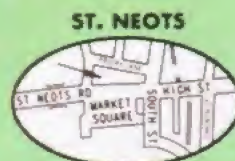
ALL OFFERS SUBJECT TO STOCK HOLDINGS

HOW TO FIND US!

**WIDE RANGE
OF GREAT
SOFTWARE
LEISURE/BUSINESS**



No. 16
DOWNSTAIRS
THE HARPUR CENTRE
BEDFORD
0234 218228



No. 6
PRIORY MALL SHOPPING CENTRE
ST. NEOTS
0480 471117



49 RAILWAY ST.
HERTFORD
0992 503606

10%
**OFF EVERYTHING ON GOLD
CARD DAYS - PHONE FOR
DETAILS
0582 505900**

IN THE PAST they've been called the ultimate expansion. The small boxes we call modems have opened up a whole new world for Amiga owners.

A modem is more than just a piece of hardware you bolt on to your machine. Modems enable you to connect to other computers over the phone line and, in combination with comms software, means you can talk to other Amiga owners and even get hold of PD software in a matter of minutes, rather than days.

The modem translates the digital information that you transmit from your Amiga and turns it into audio noises which can be sent down a phone line. The modem at the other end receives these noises and then converts them back into digital data, so the computer running at that end can make use of them.

Okay, so now we know what a modem is, but why is comms becoming so popular? What does comms have to offer the average Amiga user that can't be found elsewhere?

One of the main reasons comms is so popular is that it puts Amiga owners directly in touch with other Amiga owners. By logging on to bulletin boards (BBSs) they can leave messages, obtain the latest PD and shareware software soon after it's released and get to know other Amiga owners - yes, even stuck at home you don't have to be anti-social...

Bulletin boards are computers that are set up to act as storage areas for messages and files, enabling other users equipped with modems to call them over the phonenumber and access these resources. BBSs, as they're commonly called, get their name from the bulletin boards found in US schools, pieces of wood that anyone can stick a piece of paper to in order to convey information to other people.

While BBSs can store messages, enabling you to contact other Amiga owners locally or even around the world, they can also store the latest files and information on the Amiga, putting you at the forefront of technology and keeping you up to date on the Amiga scene.

Being in touch with other Amiga owners can go even a step further when you play multi-user games. Multi-user games are games that are run on large computers that enable many players to take part in a giant game all at once, playing with or against each other. For once your opposition in a game is intelligent!

These games started to appear several years ago, starting with *MUD*, the *Multi User Dungeon*, which pitted players in a medieval fantasy scenario, much like a real-life *Dungeons and Dragons* game but with participants playing from all around the country.

More recently we've had *Air Warrior*, the multi-user flight simulator which uses detailed graphics to portray the action on-screen. In the game you fly around the large polygon-graphic world, battling and avoiding other users who play the game at the same time.

You see the action as you create it, and because of the detailed graphics and the human element, it seems more real than most other games - while a game like *F-15 Strike Eagle* may simulate a plane more accurately, the knowledge that you're playing against

Modems galore! Of course you don't need seven modems connected to your Miggy to reach out in to the world of comms, but here at *Amiga Format* we do like to go totally overboard...



Keep in touch with a modem

Comms can be lots of fun. But can also be a daunting field to get into. **Asam Ahmad** and **Tim Howell** offer an overview of what you need.

JARGON BUSTING

There's a complete guide to modem jargon (and there's a lot of it about!) on Page 138, but for the time being there is one vital comms term you have to know. BAUD.

It basically measures how fast a modem is. Baud is the actual rate at which two serial devices are linked, eg 2400 baud which roughly translates into 240 characters per second. Do not confuse this with throughput which is measured in bits per second and is the actual amount of data being transferred, accounting for compression. Therefore 2400 baud is 2400 bps with no compression, but 9600 bps with 4:1 compression turned on.

other, real people gives the gameplay that extra edge. All you need to play the game is a modem and a copy of *Air Warrior* which we gave away with Issue 32 (see Back Issues on page 186, to get your own copy), although you do have to pay a subscription fee for the amount of time you play the game, as well as your phone bill.

To get out and about in the comms world you need to have three important pieces of equipment: a modem, a phone line and some terminal software.

As you will see over the pages there are a number of good quality modems available which can be used on your Amiga. Depending on what you want to use the modem for determines which modem you should go for. Features such as speed and compression play an important part in this decision.

For a modem to be any use at all (except as a door stop) it needs to be connected to a phone line. Most modems are simply plugged into standard wall-sockets like a phone. What you need to watch out for when you're on-line is how quickly your phone bill can rise.

Time, as they say, is money, and unless you're keen on increasing British Telecom's earnings to £100 a second then you'll have to

be aware of how much time you spend on-line. Buying a faster modem, and one that is capable of MNP compression, can save money in the long-term even if you shell out more initially. It really comes down to how seriously you want to get into comms...

The final element is getting hold of some comms software. This is software that enables your Amiga to act as a terminal and to send the data you type on the keyboard through the serial port to the modem, and then to interpret the data that comes back to you from the computer at the other end of the phonenumber.

There are a number of commercially-available comms programs available for the Amiga, but the best programs are found in the public domain. NComm 2 (on disk PU171 from Vally PD, PO Box 15, Peterlee, Co Durham SR8 1NZ 091-587 1195) is the best comms program available for the Amiga and is regularly updated to ensure it's state of the art.

Once you've got your modem, your phone line and the software you need to make all the bits work with each other, a whole new world awaits you. But before you can become part of this world, you do need a modem, so read on and let *Amiga Format* help show you which one to choose...



**DATAFLEX DESIGN
POCKET BISCOM**

£249 + VAT
DAYTONA COMMUNICATIONS LTD
0494 474799



Great! A portable modem! Now all I need is a portable Amiga to connect it to...

The Pocket Biscom can plug directly into the RS232C port on your machine without the need for a connecting cable, and it's approved by mother BT.

The casing is featureless, except for the sockets and a battery warning LED on the underside. This is difficult to see - generally the first sign you get that the battery is a bit clapped out is a display full of garbled characters. The lack of indicator lights of course means that unless you have intelligent comms software you can't precisely work out exactly what's going inside the little beast, unless you are clairvoyant.

The Biscom comes with a 9v power supply which plugs into a tiny socket. The power unit is a single block incorporating the mains plug. Sadly, it's a 2-pin plug which requires an adaptor (not supplied) to fit into UK mains sockets safely. Considering the fact that this modem is BT approved and made for use in the UK by a UK company, this is a bit strange.

The Biscom is supplied with a lead to connect it to the telephone network, but there is no second socket to enable you to keep your phone connected while you're using the modem. Then again, considering that this is meant as a portable modem, this is not too surprising.

PC comms software is provided, but that's no use to us Amiga people. A ring-bound manual and a Hayes command reference card is also supplied. It comes in a red carrying case which can accommodate the power supply, modem and all the leads and paperwork.

If you need portability and can afford it, this is the modem for you, otherwise your best bet would be to stick to a normal deskbound modem.

HYUNDAI HMD2401

£99 INC VAT
PERSONICS
0252 311332



Despite being unapproved, this is a decent modem that works well. Now, where's that spare tyre?

The HMD2401 has a reasonable manual which manages to describe what you need to do to get up and running despite a few Japlish problems. There's a quick reference card included. The PC software included is again is no use to us.

Like many Japanese and American modems the HMD2401 is not BT-approved and, although it seems to operate perfectly well, it is not strictly legal to use it on BT's telephone network. It also comes with a two-pin European style power adaptor, but thankfully it is supplied with a three-pin socket adaptor for UK use.

However, in terms of operation the HMD2401 conforms to most of BT's rules governing bell-ringing circuitry and data transmission speeds, so you will be unlucky to encounter any problems due to the lack of approval. This modem doesn't support advanced features like flow control, so you will have to either manually change your speed once connected, or if your software is intelligent enough it might be able to detect the speed from the transmitted CONNECT message. It's a basic no-frills piece of hardware that'll get the job done.

The price is very low for a modem of this standard, giving you a throughput of up to 2400 baud, but unfortunately there is no error correction or compression built into it so it can be prone to line noise if your line connection is not at its best. Nevertheless, if you are an infrequent comms user and only log on occasionally for picking up news or mail on a board and don't need the ability to transfer large files often, this is a good choice for a cheap but functional modem.

**PACE ULTRALINK
QUAD**

£399 + VAT
PACE MICRO TECHNOLOGY
0274 532000



Great modem, shame about the price - it really is quite extortionate. The modem is unnecessarily big too.

At over £400, you'd expect something pretty good and the Ultralink Quad is certainly very competent. It's in a class of its own for presentation and performs well.

The casing is a grey plastic box with a sloping front panel. Instead of LEDs, the Ultralink Quad has a large LCD display which shows all the information you need as text. The CCITT connection standard and MNP level are immediately obvious; even the telephone number you dialled is displayed. The only problem with the LCD panel is the fact that the information is only visible when looked at directly - and of course it is not illuminated, so you can't see it in the dark.

But the Ultralink Quad doesn't just look good; it works well enough to carry all the necessary BT-approval stickers. Even the UK-style 3-pin mains adaptor has BT approval and the phone cable is built in with a socket for your phone, so you won't endanger your line-rental contract with BT.

The Ultralink Quad can handle all levels of MNP standards up to level 5 as well as the newer (and better) CCITT V42 LAPM system. This can increase the speed of data-transfer by 400 per cent when connected to an LAPM-compatible modem at the other end. It also supports flow control.

It's a lot of money, £400, but this modem is good. However considering your maximum throughput is only 9600 as opposed to 38400 or 57600 bps a la Supra, you may be tempted to go for the faster modems without thinking twice. Indeed why pay more for less? It may have BT approval but given the fact that other, faster modems start at half the price...

Pocket Biscom

DOCUMENTATION ●●●●
Pretty good, with clear instructions and a good command summary available to boot.

ACCESSIBILITY ●●
Very basic. No information LEDs mean that you have to almost guess what the thing is doing.

FEATURES ●●
Only three speeds, V21, V22 and V22bis, make this a poor performer in this category.

VALUE ●●
Expensive for what it is. The only attraction here is the fact it is portable.

AMIGA
Verdict
FORMAT
63%

Hyundai HMD2401

DOCUMENTATION ●●
All the basic information is there, if a little unclearly written, with a reference card.

ACCESSIBILITY ●●●●
Has a good set of LEDs to show what is going on and works well.

FEATURES ●●●●
It has everything a modem of this spec and this price could be expected to have. Cheap no-frills stuff.

VALUE ●●●●●●
Bearing all of this in mind, it is good value for money. A good inexpensive modem.

AMIGA
Verdict
FORMAT
74%

Pace Ultralink Quad

DOCUMENTATION ●●●●
Great manuals, telling you everything you need to know in a clear manner.

ACCESSIBILITY ●●●●
The LCD display shows you a lot of information and is good in this respect.

FEATURES ●●●●
V21, V22, V23 and V22bis as well as MNP 4 and 5 and LAPM compression.

VALUE ●●●●
Although the spec is quite impressive, the price is a little too high.

AMIGA
Verdict
FORMAT
66%

AMSTRAD SM24000

£125
CENTRESOFT
021 625 3388



A good looking modem that functions as well as it needs. Nice low price makes it a good choice for beginners.

This is the one of the first modems I started messing around in the world of comms with, many eons ago, but even by today's standards it's not a bad little performer. It has all speeds up to 2400 baud, but unfortunately no error correction or compression.

It comes in a typically computery style cream colour scheme and has an array of nine LEDs to indicate exactly what its up to, including two LEDs indicating if hardware handshaking is in progress.

It has a good manual, if a little thin, and all the essential information is there. It could do with a little more technical detail about the modem, however.

In operation the Amstrad conforms to all of BT's rules circuitry with full approval, so you will be unlucky to encounter any problems in that respect. This modem doesn't support flow control, so again you will have to either manually change your speed once connected, unless your software is intelligent enough detect the speed from the CONNECT message and change the terminal speed accordingly.

Again, like the Hyundai, the lack of error correction can make this modem prone to line noise. Apart from this, the modem performs well, and the bank of LEDs can prove informative, helping you to determine the cause of problems when connecting. It's also got a loudspeaker, so you can easily hear calls in progress.

As with the Hyundai, if you are an infrequent comms user and only log on occasionally, this is a good bet to gamble with, and of course it has BT approval, so can legitimately be used on the public switched telephone network.

PACE LINNET QUAD

£349 + VAT
PACE MICRO TECHNOLOGY
0274 532000



Low spec, but high price. Approved or not, considering the price of the Amstrad which has the same spec...

This is little brother to The Ultralink and like it can handle all speeds up to 2400, including V23, so you can log on to Prestel-style viewdata boards.

One of the advantages that this modem has over all the other modems which don't have error correction (the cheaper ones) is what's called 'flow control'. This means you can set up your terminal speed at 2400 and let the modem buffer the data to the actual connect speed. This in itself is a feature that all modems should come with nowadays.

The casing is made up of some very rigid dark grey material, giving the impression of durability, and instead of the LCD panel on the Ultralink, it has a set of six LEDs telling you its current status and other basic information.

Again this modem has full BT approval so it can cheerfully be connected to the telephone network and as a result it costs more than the unapproved modems in the same price band.

There is not much to fault this modem: it is good in use, and the flow control facility means that you can connect to 1200/75 modems by using your normal software, even if it doesn't support v23.

Despite all these features, the fact remains that it is only a slowish 2400 modem and it doesn't support error correction or compression.

This makes it seem still rather expensive, especially considering the price of the Amstrad, which actually comes with BT approval. And you could, of course, buy the excellent Supra FAX modem or Supra 9600 for a lot less money...

SUPRA 9600

£249 INC VAT
SUPRA CORPORATION VIA WTS
0582 491949



This modem's great. My personal advice is buy one. Buy two, it's so good. It's modem-mungus.

This modem will probably make you scream for joy the first time you use it. It features just about everything you would want in a modem, save BT approval.

The modem is well constructed, with a metal case and no less than nine LEDs to tell exactly what mode it's in and call progress. It's even got a multicolour LED to show you what speed it's currently operating at. Apart from all that, it's heavy, giving the impression of something meaty, solid and reliable.

It boasts all protocols up to 9600 baud, apart from the dated viewdata 1200/75 V23 standard, it has MNP error correction and compression mode 5 and, the cherry on the cake, LAPM correction to give a maximum throughput of up to 38400 bps!

In use, the modem is great, with hardware flow control, meaning you can leave your terminal program set at one speed and the modem buffers the data, and an auto fallback renegotiating system. This feature makes it possible to dial all BBSs at 9600 baud. When it connects, it negotiates with the other modem the highest speed and protocol they can both use and connects at the highest possible setting falling back to lower speeds if necessary.

Setting up the modem is a little tricky, with numerous extra command codes for setting up the error correction and so on, but once you have got the right settings and saved them to the modem's non-volatile memory, life is incredibly easy.

If you don't mind the lack of BT approval, given its low price and its high spec, buy it — this is just about one of the best modems you can get.

Amstrad SM 24000
DOCUMENTATION ●●●●

Only a small manual, but it tells ou most things, albeit briefly.

ACCESSIBILITY ●●●

Good set of LEDs, and it also comes with a serial cable.

FEATURES ●●●●

Nothing special here, just a bog standard V22bis modem that works well.

VALUE ●●●

Considering the fact that this modem is approved and inexpensive, it is a good option.

Pace Linnet Quad
DOCUMENTATION ●●●●

Very good and well-written docs, conforming to the usual high standards that you can expect from Pace.

ACCESSIBILITY ●●●

Only basic LEDs for information, but the essential ones are included.

FEATURES ●●●●

Not many, just the usual for a 2400 modem with only the extra benefit of the flow control facility.

VALUE ●●●

Far too expensive for what it is. It is BT-approved, but then again so is the Amstrad...

Supra 9600
DOCUMENTATION ●●●●

Excellent manual, very well written with lots of useful technical information as well.

ACCESSIBILITY ●●●

The array of variously-coloured LEDs tells you exactly what's happening and when.

FEATURES ●●●●

V21, V22, V22bis, V32 and MNP upto level 5 or LAPM correction and compression.

VALUE ●●●●

Great value for money. If you can afford it, buy it. It's a dream. The only problem is, it's now not to common.

AMIGA
Verdict
FORMAT

77%

AMIGA
Verdict
FORMAT

65%

AMIGA
GOLD
FORMAT

90%

SUPRA FAXMODEM V32BIS

£259 FIRST CHOICE COMPUTERS 0532 319057



As its name suggests, this modem is capable of transmitting and receiving faxes. As well as this, it can provide you with V32bis modem speeds, that's 14400 baud to us, at up to four times correction and compression giving a theoretical maximum throughput of an astonishing 57600 bps!

Compared with its older counterpart the Supra 9600, this modem is about half the size and a lot lighter for what is: an even faster, sexier and all-round better piece of kit. Instead of an array of numerous LEDs, this modem has just four, indicating terminal ready, on hook and transmit or receive. The rest of the information is displayed via a dot matrix two character panel which constantly cycles through the connect speed, compression mode and whether or not there is a carrier present by means of two letter abbreviations.

This modem also supports full flow control, allowing your terminal to be set at its maximum speed, and due to its fallback system can connect to just about any other modem around except HSTs and V23 modems. HST is a different 14400 standard and incompatible with V32bis 14400, but they can connect at a lower speed so all is not lost.

You can't really go wrong with this modem, it is fast and compatible with everything at some speed. Its fax facilities are an added plus, but you will need some fax software for this purpose such as the excellent

GPFax software. Look out for a review of this Australian-originated program next month.

If you can stretch your budget to go this far, buy this modem. It is unapproved, but it is not every day you find a modem with the features it has at this price — you could pay over twice the price for just a modem this speed alone, without the fax facilities.

Supra FAXmodem

DOCUMENTATION

Again, excellent. Great manual (though no fax details) and a reference card. ●●●●

ACCESSIBILITY

The character panel tells you precisely its current mode and what it's doing. ●●●

FEATURES

This modem has just about every single speed and compression method around! ●●●●●

VALUE

For the price, and considering its FAX capabilities, it's a bargain. ●●●●●



93%

MNP, LAPM AND V32BIS, THAT MODEMS JARGON BUSTED!

Communication Protocols:

- V21** — 300 baud communications
- V22** — 1200 baud communications
- V23** — 1200/75 baud split rate communications
- V22bis** — 2400 baud communications
- V32** — 9600 baud communications
- V32bis** — 14400 baud communications
- HST** — Another 14400 protocol, incompatible with V32bis however.

Connection Protocols:

- MNP 2-4,10** — Microcom Networking Protocols that provides error correction. The higher the number, the better the error correction.

MNP 5 — MNP compression protocol up to 2:1

LAPM — An error correction protocol similar to MNP level 10.

BTLZ — BT Lempel Zev compression up to 4:1

V42 — MNP or LAPM error correction with the addition of MNP 5 compression

V42bis — LAPM error correction and BTLZ compression. The best connection you can get.

Hard techie type words:

Modem — MOdulator DEModulator. Converts digital signals to audio and back.

Local — Your computer or modem.

Remote — Computer/modem you're connected to.

USEFUL BBS NUMBERS

This is by no means a comprehensive list of bulletin boards around, but just a selection of the most interesting ones. If these aren't enough, it is very easy to get hold of more numbers as most BBSs have some sort of list lying around in one of their file sections with literally hundreds of numbers. Watch your phone bill though... Happy communicating.

01 FOR AMIGA 071 377 1358

This is a good board with literally thousands of files for the Amiga, covering all aspects. It also has the entire collection of Fish PD disks archived for downloading. You can log on as a normal user, but for full access you will require membership at a minimal subscription fee each year.

CITIZEN'S ADVICE BUREAU 081 644 8714

A decent board with a large selection of Amiga files, as well as files for other computers. You do not need membership for this board, but your only restriction is that must upload a percentage of files for what you download.

NON-BABT APPROVED 0268 510495

Despite its name, this board is definitely recommended. It has a fairly wide selection of files of all sorts and doesn't need subscription either. It also, like most boards, has good mail facilities, especially through FidoNET which links up boards around the country.

THE END ZONE 0524 752245

This is one of my favourite boards. It has a vast domain of Amiga files as well as many special interest sections for DTP etc, and also Mac, ST and IBM sections. Membership is not compulsory on this board, but for access to a few sections, a small fee is asked for.

061 FOR AMIGA 061 799 4922

This board, as you may have guessed by the name, is based in Manchester. It has full mail facilities and a good selection of files. It also has a few online games which you can actually play in real time or against opponents who log on to the board. Great fun!

Throughput — This is not the baud rate, but the actual transfer rate: so you can be connected at 9600 baud, but your throughput may be 38400 bps with V42bis.

Flow control — A buffering system that allows your computer rate to be faster than the modem's baud rate to take advantage of compression.

Command set — Commands that tell the modem what to do. Based on the original Hayes command set and now expanded.

Telephone Bill — The bloke that comes around to your house to cut your line off if you are not careful. Solution: use someone else's line...tee hee!

NOW A FULL COLOUR HANDY SCANNER FOR YOUR AMIGA

AT AN UNBEATABLE PRICE!!

FOR ONLY **£199.99**

- The NEW Datel Colour Scanner uses the Mustek 8 colour grey scale head to produce 4096 colour images.
- Several modes of operation are available to give 8, 16 or 32 different colour and Ham images as well as 16 grey scales.
- Scan update direct to the screen with direct scrolling and positioning of the scanned image.
- Full colour palette control with Gamma correction.
- Save IFF or Raw files of screen or buffer.

- Runs in 640 x 256 or 320 x 256 screen display.
- Unit plugs into expansion port of Amiga and does not require external power unit..

HIGH RESOLUTION BLACK & WHITE HANDY SCANNER AT AN EVEN LOWER PRICE!

- NEW** IFF Buffer Save 1600 x 1024 pixels, dual buffer, scan matching & view Buffer.
- NEW** Unmatched edit/capture facilities & keyboard control not offered by other scanners at this special price.
- NEW** Full keyboard control of most functions.
- NEW** An easy to handle Handy Scanner featuring 105 mm scanning width & 400 dpi resolution enables you to scan graphics/text into your Amiga.

- NEW** Includes hard disk transfer to run under Workbench.
- NEW** Adjustable switches for brightness/contrast levels.
- NEW** Full sizing menu of scan area.
- NEW** Geniscan gives you the ability to scan images, text or graphics & even offers 200 Dpi Dual Scan Mode.
- NEW** Screen grid overlay & configure menu to save parameters. Icon menu to select functions.

- NEW** X, Y position readout & metric sizes.
- NEW** Save images in suitable format for most leading packages including PHOTON PAINT, DELUXE PAINT, etc.
- NEW** View window and position control panel.
- NEW** Powerful partner for DTP that allows for cut and paste editing of images etc.

COMES WITH **FREE PHOTON PAINT**

NOW ONLY **£99.99**

- Package includes Handy Scanner, Interface, Power Pack and Scan Edit IV software.

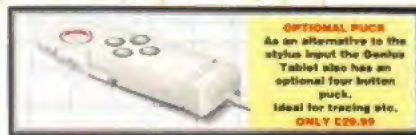
GENIUS DIGITIZING TABLET

ADD A PROFESSIONAL TOUCH TO YOUR DRAWING/CAD WORK

- With the Amiga Genitizer Graphics Tablet you can streamline the operation of most graphic or CAD programs.
- The Genitizer Graphics Tablet utilises latest technology to offer up to 100 dpi resolution at the tip of a stylus.
- Complete 9" x 6" digitizing area plus super accurate stylus combine to enable fast, accurate and easy control.
- Works by "mouse emulation" so the Genitizer will work with most packages where mouse input is the usual method - Deluxe Paint, Photon Paint, CAD Packages, etc.
- Supplied with a template for Deluxe Paint.
- Full easy to follow instructions.
- This is the input method used on professional systems - now you can add a new dimension to graphics/CAD.
- Fast input of drawing by "tracing" is made easy - plus "absolute reference" means you can move around the screen many times faster than by a mouse.
- The Genitizer fits in the serial port of your Amiga 500/1000/2000 and "co-exists" with mouse.
- Unlike a mouse, the Tablet gives absolute co-ordinates so that tracking and menu selections are possible from the tablet face.

- A pressure sensitive switch built into the stylus tip activates the Tablet overriding the normal mouse input. When you are not using the Tablet, you have normal mouse control.
- Complete system - Graphics Digitizer Tablet, Stylus, Deluxe Paint Template, Power Adaptor, Test Software, Interface Unit, plus Driver Program - no more to buy!

NOW ONLY **£129.99**



OPTIONAL PUCK
As an alternative to the stylus input the Genius Tablet also has an optional four button puck. Ideal for tracing etc. ONLY £29.99

GOLDEN IMAGE OPTICAL REPLACEMENT MOUSE

... NOW A TRUE OPTICAL MOUSE! FOR THE AMIGA

- YES A FULL FEATURE OPTICAL MOUSE FOR YOUR AMIGA - THAT MEANS NO MOVING PARTS!
- Incorporating full optical tracking and counting - no ball so no problems with clogging, slipping, etc.
- High count output for very fine movement.
- Two button microswitch action.
- Comes complete with special "Optical Pad".
- Superbly styled - supersmooth shape moulded to fit the hand.
- Comes complete with rounded 9 pin connector. No more to buy!!

COMPLETE ONLY **£39.99**

GENIUS MOUSE

- High quality direct replacement for mouse on all Amigas.
- Teflon glides for smoother movement.
- Rubber coated ball for minimum slip.
- Optical system counting - 500/mm.

COMPLETE WITH ALL ACCESSORIES ONLY **£19.99**

DATTEL
Electronics
LIMITED

HOW TO GET YOUR ORDER FAST!

TELEPHONE (24Hrs) **0782 744707** CREDIT CARD ORDERS
ORDERS NORMALLY DISPATCHED WITHIN 48 HRS. ALL CHEQUES/POSTAL ORDERS MADE PAYABLE TO...



DATTEL ELECTRONICS



GOVAN ROAD, FENTON INDUSTRIAL ESTATE, FENTON, STOKE-ON-TRENT,
ST4 2RS, ENGLAND. FAX 0782 744292 TECHNICAL/CUSTOMER SERVICE 0782 744324

DATTEL LONDON SHOP



222, TOTTENHAM COURT RD,
LONDON, W1. TEL: 071 5806460

ACTION REPLAY

THE WORLD'S CARTRIDGE IS

NOW WITH A MASSIVE IN ROM OFFERING MK III



JUST LOOK AT THE UNMATCHED RANGE OF FEATURES

● **SAVE THE ENTIRE PROGRAM IN MEMORY TO DISK**
Special compacting techniques enable up to 3 programs to fit on one disk. Now saves directly to disk as Amiga Dos - reloads independently of the cartridge - even transfer to hard drive! Works with up to 2 Megs of Ram - even 1 Meg Chip Mem (Fatter Agnus).

NEW ● **SUPER POWERFUL TRAINER MODE** - now with DEEP trainer. Even better than before - allows you to generate more or even infinite lives, fuel, ammo. Perfect as a Trainer Mode to get you past that "impossible" level. Easy to use.

● **IMPROVED SPRITE EDITOR**
The full Sprite Editor allows you to view/modify the whole sprite set including any "attached" sprites. PLUS A RANGE OF IMPROVED FEATURES.

● **VIRUS DETECTION**
Comprehensive virus detection and removal features to protect your software investment. Works with all presently known viruses.

NEW ● **BURST NIBBLER.**
Now this super disk copier program is built into Action Replay Mk III. Just imagine a superfast, efficient disk copier program at the press of a key - no more waiting.

● **SAVE PICTURES AND MUSIC TO DISK**
Pictures and sound samples can be saved to disk. Files are saved directly in IFF format suitable for use with all the major graphic and music packages. Samples are displayed as screen waveform.

NEW ● **PAL or NTSC MODES SELECTABLE** - Useful for removing ugly borders when using NTSC software. (Works only with newer Agnus chips).

● **SLOW MOTION MODE**
Now you can slow down the action to your own pace. Easily adjustable from full speed to 20% speed. Ideal to help you through the tricky parts!

NEW ● **MANY MORE INSTANT CLI COMMANDS** - like Rename, Relabel, Copy, etc.

● **RESTART THE PROGRAM**
Simply press any key and the program will continue where you left off.

● **FULL STATUS REPORTING**
At the press of a key now you can view the Machine Status, including Fast Ram, Chip Ram, RamDisk, Drive Status, etc.

● **POWERFUL PICTURE EDITOR**
Now you can manipulate and search for screens throughout memory. Over 50 commands to edit the picture plus unique on screen status "overlay" shows all the information you could ever need to work on screens. No other product comes close to offering such dynamic screen handling of frozen programs!!

NEW ● **JOYSTICK HANDLER** - allows the user to select Joystick instead of Keypresses - very useful for many keyboard programs.

● **MUSIC SOUND TRACKER**
With Sound Tracker you can find the complete music in programs, demos, etc. and save them to disk. Saves in format suitable for most track player programs. Works with loads of programs!!

● **AUTOFIRE MANAGER**
From the Action Replay III preference screen you can now set up autofire from 0 to 100%. Just imagine continuous fire power? Joystick 1 and 2 are set separately for that extra advantage!

NEW ● **IMPROVED RAM EXPANSION SUPPORT.**
Now many more external Ram Expansions will work with all Action Replay III commands.

● **DOS COMMANDS**
Now you have a selection of DOS commands available at all times - DIR, FORMAT, COPY, DEVICE, etc.

NEW ● **FILE REQUESTOR** - if you enter a command without a filename, then a file requestor is displayed.

● **DISK COPY**
Disk Copy at the press of a button - faster than Dos Copy. No need to load Workbench - available at all times.

● **BOOT SELECTOR**
Either DF0 or DF1 can be selected as the boot drive when working with Amiga Dos disks. Very useful to be able to boot from your external drive.

NEW ● **PLUS IMPROVED DEBUGGER COMMANDS** - including Mem Watch Points and Trace.

● **DISKCODER**
With the new "Diskcoder" option you can now 'tag' your disks with a unique code that will prevent the disk from being loaded by anyone else. 'Tagged' disks will only reload when you enter the code. Very useful for security.



HOW TO GET YOUR ORDER FAST!

TELEPHONE [24Hrs] **0782 744707** CREDIT CARD ORDERS
ORDERS NORMALLY DISPATCHED WITHIN 48 Hrs. ALL CHEQUES/POSTAL ORDERS MADE PAYABLE TO...



GOVAN ROAD, FENTON INDUSTRIAL ESTATE, FENTON, STOKE-ON-TRENT,
ST4 2RS, ENGLAND. FAX 0782 744292 TECHNICAL/CUSTOMER SERVICE 0782 744324

DAtEL LONDON SHOP



222, TOTTENHAM COURT ROAD,
LONDON, W1. TEL: 071 58064

ACTION REPLAY

THE MOST POWERFUL FREEZER-UTILITY

NOW EVEN BETTER!!

THE 256K OPERATING SYSTEM

A WHOLE NEW RANGE OF FEATURES

STILL ONLY

£59.99

**AMIGA A500/500+
FOR 1500/2000 VERSION £69.99**

AMIGA ACTION REPLAY SIMPLY PLUGS INTO THE EXPANSION PORT OF YOUR AMIGA AND GIVES YOU THE POWER TO FREEZE MOST ANY PROGRAM

NEW

SET MAP -

allows you to Load/Save/Edit a Keymap.

● **PREFERENCES**

Action Replay III now has screen colour preferences with menu setup. Customise your screens to suit your taste. Very simple to use.

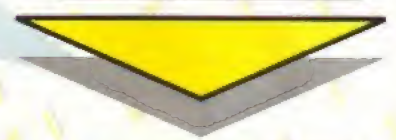
NEW

IMPROVED PRINTER SUPPORT -

including compressed/small character command.

● **DISK MONITOR**

Invaluable disk monitor - displays disk information in easy to understand format. Full modify/save options.



PLUS A MACHINE CODE FREEZER MONITOR WITH EVEN MORE POWER!!

MORE FEATURES INCLUDING 80 COLUMN DISPLAY AND 2 WAY SCROLLING...

- Full M68000 Assembler/Disassembler
- Full screen editor
- Load/Save block
- Write String to memory
- Jump to specific address
- Show Ram as text
- Show frozen picture
- Play resident sample
- Show and edit all CPU registers and flag
- Calculator
- Help command
- Full search feature
- Unique Custom Chip Editor allows you to see and modify all chip registers - even write only registers!
- Notepad
- Disk handling - show actual track, Disk Sync. pattern etc.
- Dynamic Breakpoint handling
- Show memory as HEX, ASCII, Assembler, Decimal
- Copper Assemble/Disassemble - now with suffix names

REMEMBER AT ALL TIMES YOU ARE INTERROGATING THE PROGRAM IN IT'S "FROZEN" STATE WITH ALL MEMORY AND REGISTERS INTACT - INVALUABLE FOR DE-BUGGING OR JUST THE INQUISITIVE!

WARNING 1988 COPYRIGHT ACT WARNING

Datel Electronics Ltd., neither condones or authorises the use of its products for the reproduction of copyright material. The backup facilities of this product are designed to reproduce only software such as Public Domain material, the users own programs or software where permission to make backups has been clearly given. It is illegal to make copies, even for your own use, of copyright material, without the clear permission of the copyright owner, or the licensee thereof.



REAL TIME Colour VIDEO DIGITIZER

CAPTURE REAL COLOUR IN REAL TIME!



NOW DATEL BRING YOU THE FIRST REALTIME COLOUR VIDEO DIGITIZER FOR UNDER £200!!

- NOW, BY USING CUSTOM CHIP TECHNOLOGY, YOU CAN GRAB A PICTURE FROM ANY VIDEO OR CAMERA SOURCE - NO NEED TO PAUSE THE PICTURE - NO NEED TO USE FILTERS.
- Grabs 15 Bit colour image in 1/50 second, double buffered display updates at 5 frames per second full screen or 15 frames per second in monitor mode.
- Display 8, 8+, 16, 16+, 32, 32+, Red, Green, Blue, B/W and HAM.
- 24 Bit IFF file save from 15 Bit data plus visual IFF colour save modes.
- Screen display is 256 x 256 pixels in normal mode, 128 x 128 pixel monitor mode or optional 320 x 256 save mode.
- Editing features include Cut, Copy, Brush, Paste and Undo, palette controls include R.G.B. level and Gamma correction.
- Special effects mirror, reverse pos/neg compress etc.
- Standard phono video input 0.5 to 2.0 volt composite sync level from video/camera etc.
- Hardware consists of main digitizer unit with brightness and contrast controls and R.G.B. splitter unit featuring Red, Green, Blue and Saturation controls.
- Unit plugs into expansion connector of Amiga 500, with through port for hard disk drives.

OPTIONAL MOVIE MAKER SOFTWARE

- Movie Maker uses the monitor mode of the Real-Time Digitizer to record and playback.
- 128 x 128 pixel 32 colour images at rates between 1 to 15 frames per second.
- Full editing facilities to record, play, single, step, cut, paste, clear, etc.
- Play, loop, forward or backwards controls plus time interval feature for up to 1 hour between frames.
- Uses chip or just memory up to 6 meg to give 500 frames. This gives you a 1 minute movie at 8 frames per second.

ONLY £ **199⁹⁹**

OPTIONAL MOVIE MAKER SOFTWARE

ONLY £ **19⁹⁹**

DATTEL
Electronics
LIMITED

HOW TO GET YOUR ORDER FAST!

TELEPHONE [24Hrs] **0782 744707** CREDIT CARD ORDERS

ORDERS NORMALLY DISPATCHED WITHIN 48 Hrs, ALL CHEQUES/POSTAL ORDERS MADE PAYABLE TO...



DATTEL ELECTRONICS



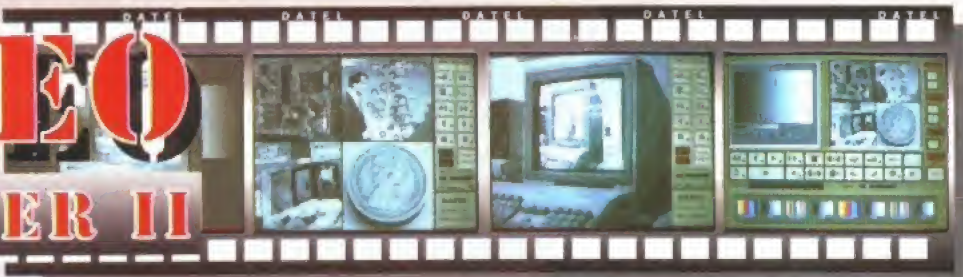
GOVAN ROAD, FENTON INDUSTRIAL ESTATE, FENTON, STOKE-ON-TRENT,
ST4 2RS, ENGLAND. FAX 0782 744292 TECHNICAL/CUSTOMER SERVICE 0782 744324

DATEL LONDON SHOP



222, TOTTENHAM COURT RD,
LONDON, W1. TEL:071 5806460

VIDEO DIGITIZER II



NOW YOU CAN DIGITIZE PICTURES FROM ANY VIDEO CAMERA OR VCR

- Completely re-designed interface that plugs into the expansion connector of the Amiga 500 or internal connector of the Amiga 2000.
- Standard phono video input 0.5 to 2.0 volts to take signals from TV, video or camera.
- Controls for brightness and contrast and throughport on A500 version.
- Frame grab in 1/50 second, record update up to 3 frames per second.
- Single or continuous mono update in 4, 8 or 16 grey levels.
- Play frames backwards or forwards up to 15 frames per second.
- Save Raw, IFF or sequence files.
- Automatically adjust for maximum number of frames according to memory available.
- Display 256 x 256 pixels, but optional 320 x 256 IFF Save. Screen editing features Cut, Copy, Brush, Paste and Undo.

- Second display editor controls sequence production: Record, Play, Insert, Clear, Delete Frames.
- Effects menu to reverse pos/neg, compress, etc.
- Set start and end position number of frames saved, number frames, step backwards and forwards, loop, etc. Time lapse feature adjustable in 1 second increments to 1 hour between each frame. Ideal for capturing flowers opening, sky movements, special effects, etc.
- Separate player programs included to insert into your own program disks. Hard disk transfer program.
- Please state whether you require the A500 or 2000 version when ordering.

All For Only £89.99 COMPLETE

100%... VALUE
100%... FEATURES **AMIGA FORMAT**
"At the price, the picture quality and wide range of features is almost unrivalled!"

8833 Mk 2 MONITOR

- Fully compatible Stereo Monitor.
 - 14" screen - RGB Composite inputs.
 - Free Amiga lead. • Ready to go!!
- Only £199.99** - £10.00 carriage.

PROTAR VISTO C14MI

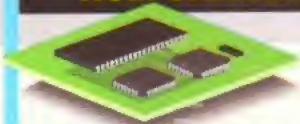
Improved version of 8833 Mk II.
Only £209.99 - £10.00 carriage.

A500 DUAL PORT EXPANDER

- Allows two devices to be connected simultaneously to your A500/+ Expansion Port (compatibility allowing).
 - Ideal for A590 owners, effectively giving Thru Port.
 - Top quality connectors.
- Only £19.99**



ROM SHARER



- Some older programs will not run with the new Kickstart 2.04. Datel now brings you this unique Rom Sharer to allow you to switch between Kickstart 1.3 and 2.04.
- Easily fitted - no more to buy.

Only £24.99

DIGITAL DISPLAY DRIVE

- Top quality 1 Mb unformatted drive.
- Built in digital display actually shows which track is accessed.
- Attractively styled to suit all Amigas.

Only £59.99



MEMORY UPGRADES

£12K UPGRADE

- Fully compatible - brings A500 up to 1 Meg.
- Simply plug into trapdoor - does not affect warranty.
- Fitted with disable switch.



Without Clock £19.99
With Clock £24.99

2 MEG UPGRADE FOR YOUR A500 PLUS

- Simply plug in to upgrade your A500 Plus to a full 2 Megs of Chip Ram.
- Take advantage of the Advanced Graphic Power of your Plus.

Only £44.99

RAM MASTER

- Upgrade your A500 to a full 2 Megs
- Easily fitted to trapdoor and Gary chip.
- Onboard clock - auto recharging.
- Fully populated with Fastram (requires Kickstart 1.3).

Only £79.99

NEW MINI SAMPLER



- A top quality 8 bit mono sampler complete with Pro Sampler and Jammer software.
- Also compatible with most other PD Sampler software.
- Inputs for microphone or line 3.5mm jack and din connections.
- Utilises latest surface mount technology and incorporates all the features found on bigger, more expensive samplers.
- Easy to use - just plug in and start sampling!

Only £24.99
COMPLETE PLEASE STATE A500/1000/2000/1500

AMIGA PRO SAMPLER STUDIO II + DATEL JAMMER

- New design hardware now plugs into expansion socket of A500 completely freeing the parallel port.
- Surface mount technology, twin A/D converters for realtime stereo sampling.
- Extensive filters for extremely clean and noise-free sampling.
- Through bus allows existing add ons. e.g. hard drive.
- The NEW Sampler II software has been completely re-written in 100% Machine Code and incorporates faster routines, bigger displays and many new editing features such as Cut, Copy, Insert, Replace, Mix, Erase, etc.
- Separate zoom windows and controls for left and right channels.
- Multi-bank facilities for 1 Meg users.
- Stereo lock control.
- Adjustable trig record level and sound monitor.
- Separate buffer for editing waveforms and improved wave-editor with instant update.
- Save files in Raw or single, multi-octave IFF format.
- Envelope control panel for ramping up and down re-scale amplitude, noise filter and scan waveform.
- On screen display of filenames sample rate, length, etc.
- Inputs for microphone or line 1/4" jack and DIN connections at rear of unit.

Only £49.99 COMPLETE (A500)
INTERNAL 2000/1500 VERSION ALSO AVAILABLE

REALTIME STEREO SAMPLING

MIDIMASTER

- Midi In - 3 x Midi Out & Midi Thru.
- Full Midi Interface for A500/1000/2000 (please state which model req.).
- Fully Opto isolated.
- Compatible with all leading Midi packages (In D/Music).

Now Only £19.99
INC. 2 FREE MIDI CABLES

INTERNAL MIDI INTERFACE

- Now an internal interface for the Amiga 2000 and 1500.
- Easily fitted in minutes.
- Leaves serial port free for other uses.
- Midi In, 3 x Midi Out and Midi Thru.
- Fully compatible - Opto isolated.

Only £29.99
INC. 2 FREE MIDI CABLES

MICROMIDI

- MIDI In - MIDI Out - MIDI Thru.
 - Fully Opto isolated.
- Now Only £14.99**

HOW TO GET YOUR ORDER FAST!

TELEPHONE [24Hrs] **0782 744707** CREDIT CARD ORDERS
ORDERS NORMALLY DISPATCHED WITHIN 48 Hrs. ALL CHEQUES/POSTAL ORDERS MADE PAYABLE TO...



DATEL ELECTRONICS



GOVAN ROAD, FENTON INDUSTRIAL ESTATE, FENTON, STOKE-ON-TRENT,
ST4 2RS, ENGLAND. FAX 0782 744292 TECHNICAL/CUSTOMER SERVICE 0782 744324

DATEL LONDON SHOP



222, TOTTENHAM COURT RD,
LONDON, W1. TEL: 071 5806460



Colour digitising can be a nightmare, what with plastic filters, spinning wheels and all the confusing software. But **Neil Jackson** thinks he might have found a cheap way of avoiding all the hassle.

Realtime Colour Digitiser

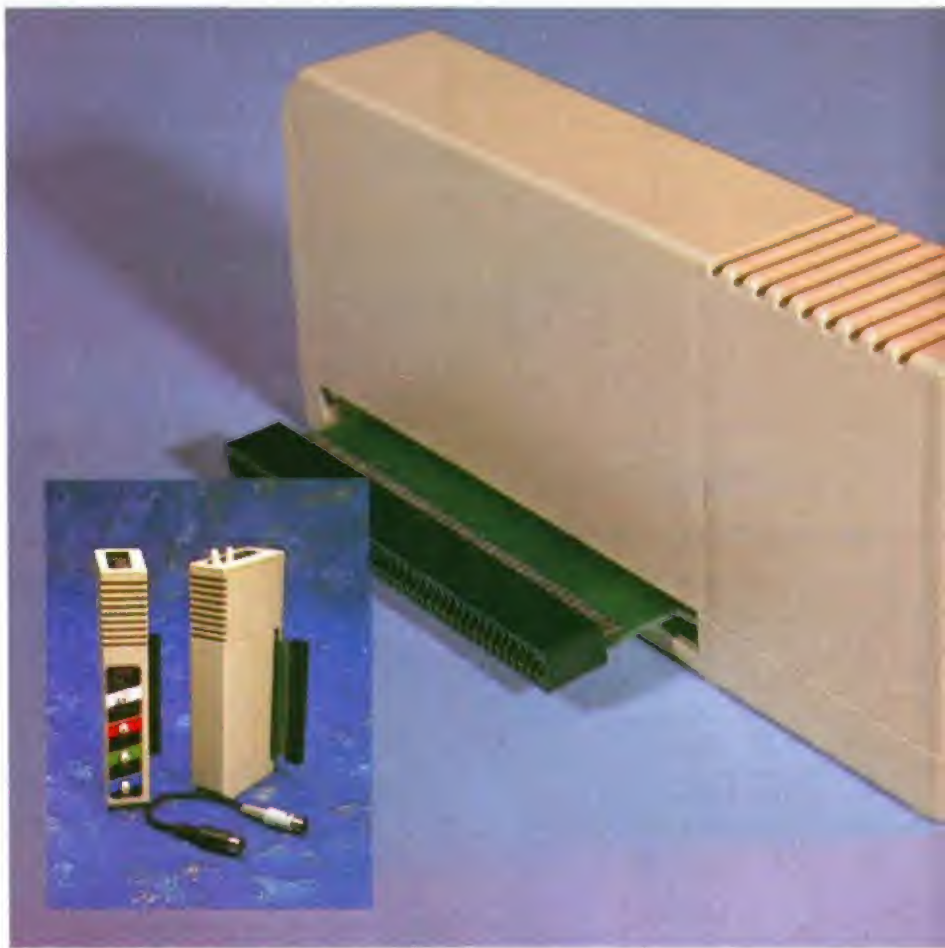
Video grabber ■ £199.99 ■ Datel Electronics

TRADITIONALLY, DIGITISING IN colour is a hardware-orientated task, and a tricky one at that. Usually it involves three 'takes', one each for the red, green and blue colour components of the image, involving lots of messing about with coloured filters and taking up lots of time and trouble. Sure, things are easier with a 'real-time' colour digitiser system, but until now these have been outrageously expensive.

Datel's original digitiser was real-time and very good quality indeed, but it only worked in black and white. In this new package you find two plastic casings each roughly the size of a cigar box. One of these is the original mono

The system is let down by the rather cheap-looking boxes which contain it. They're a bit delicate and the knobs and connectors feel like they could break off too easily.

REALTIME DIGITISER is available from Datel Electronics 0782 744707



digitiser; the other is an RGB splitter, which is designed to split a video signal into the red, green and blue the digitiser needs.

The RGB Splitter has knobs on the top of it which enable you to control the overall colour level (saturation) and also the individual colour levels. The video signal plugs into the back of the unit through a standard

RCA/Phono connector, the type used on most household hi-fi systems.

The main hardware turns the analogue video signals into digital bits to make up your pictures. On the back of the box are the brightness and contrast controls. The two boxes connect with a short flying lead (supplied) as well as through the expansion connectors.

AMIGA FORMAT

144

SEPTEMBER 1992

The digitiser alternatives

If you're thinking of buying a digitiser and you don't think the Datel Colour system is the right one for you, here's what your options are.

MONO ONLY

DATEL VIDEO DIGITISER 2
£89.99 DATEL 0782 744707

Works in real time, is very easy to use and gives absolutely excellent results to boot: sharp, still frames with absolutely no noise. We just plugged it into the telly and got brilliant results straightaway. Good fun indeed.

Amiga Format rating 90%

VIDI-AMIGA
£129.95 ROMBO 0506 414631

Real-time mono system that doesn't give the sharpest quality but has particularly useful animation features: it saves and plays back a sequence of 16 frames, which you can loop and colour. Also highly recommended.

Amiga Format rating 77%

THREE-PASS COLOUR SYSTEMS

VIDI-CHROME
£19.95 ROMBO 0506 414631

Colour software upgrade for the mono Vidi-Amiga system, complete with colour filters, gives excellent results as Amiga HAM images: but remember, it's not real-time any more.

Amiga Format rating 86%

COMPLETE COLOUR SOLUTION
£179 ROMBO 0506 414631

High-value combination of original Vidi-Amiga digitiser, Vidi-Chrome and also an RGB splitter which saves the hassle of colour grabbing by breaking the signal into constituent colours and makes the process quicker. Still not real-time.

Amiga Format rating 92%

DIGVIEW GOLD
£149.95 NEWTEK VIA
HB MARKETING 0753 686000

The 'original and best' colour system involves three-pass colour and the use of filters. Results are great if you take some care, and this system was the originator of high-res 'Dynamic HAM' mode. Also with the DigiView you get the *DigiPaint* HAM paint program free.

Amiga Format rating 90%

MEDIASTATION
£159.95 NEWTEK VIA
HB MARKETING 0753 686000

More recent combined pack of the market-leading DigiView digitiser with two equally well-endowed software packages: *DigiPaint 3* and the animation utility *Elan Performer*. In actual fact it doesn't represent as good value, really.

Amiga Format rating 86%

SNAPSHOT PRO
£585
HB MARKETING 0753 686000

This is a good digitiser - in fact it's a very good digitiser. It's a composite system, which means it can use a colour signal and doesn't need filters or a splitter. But it's very pricey considering it doesn't do colour in real time.

Amiga Format rating 78%



Datel's colour video digitiser produces rather blurry results, regardless of the mode you choose. In 32+ mode (above) there's a lot of colour variation but it's better in HAM mode (below).



VIDEON

£99 HB MARKETING 0753 686000

Another system that works from a colour input signal and can do grabs in one pass, but doesn't do real time. This is old and creaky now, and the results just aren't good enough.

Amiga Format rating 78%

REAL-TIME COLOUR SYSTEMS

COLOURPIC

£399 JCL 0892 75791

Real-time colour frame-grabbing system (which means it grabs at 1/25th of a second or quicker, so it can grab images from a running videotape). Gives decent results, saves 16-bit images, and has just been upgraded so a new version should be reviewed here soon.

Amiga Format rating 82%

SUPERPIC

£499 JCL 0892 75791

Same as Colourpic but with genlock also included.

Amiga Format rating 82%

FRAMEGRABBER 256

£599 PP&S VIA MARCAM 0604 790466

Easily the most expensive digitiser currently on the market, but also the best. It works in full real time, has plenty of clever features and adjustment options, and very easy to set up and use. But it costs so darned much.

Amiga Format rating 82%

Set-up is tricky. The two boxes fit together using an Amiga expansion slot, but there's still a gap of about 5mm between them. This means they can flex, running the risk of cracking the connectors or boards, or momentarily disconnecting the signals passing through.

The adjustment knobs are tubes fitted on side-mounted potentiometers and they are a centimetre or so long—this means that as you apply pressure to twist them (and they're very stiff) you run the risk of bending the mountings or cracking the solder joints on the board. Not very robust and so they need to be handled carefully.

Another minor irritation is that there are no adjustment scales marked—not even a coloured mark on the knob—so it's impossible to see what the current settings are. Better quality knobs with more solid mountings and position markers would have been a simple and easy improvement—the budget approach doesn't inspire confidence.

Although the Datel system has a through port to enable a hard drive to plug in at the same time, it's not perfect. The size of the hole where the slot is located prevents you from fitting a GVP Impact II hard drive—the steel under-plate hasn't got anywhere to go. With the GVP Impact II being one of the most popular hard drives available, it's a gross oversight not to have allowed for it.

The system does all of its main digitising on a 32-colour, 256 pixel by 256 pixel screen. In repeat mode, it displays the incoming video signal roughly five times a second which is just about usable for moving images. In monitor mode, this frame-speed increases to 15 frames a second, but the display shrinks to a small window in the centre.

While the video signal is being displayed, the mouse action is interrupted, which is a bit of a pain. The pointer shoots around with time-lag and jerkiness while you attempt to operate the icons—and the icons themselves seem to get stuck momentarily, triggering off and on in a very annoying manner, until you let go at just the right moment.

To grab a frame, you must first switch to stop mode and then you can change the colour mode if you wish. There are four basic modes to choose from: 8-colour, 16-colour, 32-colour and HAM, with extra half-bright modes available on 8, 16 and 32 colour modes.

There are four less useful modes to show your incoming video signals in shades of pure red, green or blue, or plain old black and white. You can switch between all these modes to your heart's content, once the screen has stopped displaying the live video signal.

The actual digitising process is invisibly fast—as soon as you hit the stop button, you've captured an image in the digitiser's frame-store. Once it's there, you can work on it using the software's in-built menu features. These include the usual cut and paste, and a useful brush mode (which is exactly the same as the brush mode contained in *Deluxe Paint*).

There are also a few special effects which you can use to flip positive and negative images, turn the screen upside-down or shrink it by half horizontally or vertically. All very nice, but to

be honest they're probably not all that much use. You're much more likely to do your image-manipulation in a proper art package which has a full screen display.

The manual is passable, but not really that helpful. It requires a bit of patience and jiggery-pokery to get things looking halfway decent, and a setting-up tutorial would have helped. Which knobs should you adjust first: brightness, contrast or colour saturation? More often than not, you end up juggling them around until you're fed up.

For the amount of work you need to put in to set it all up, the Datel system doesn't pay good enough dividends. The 32-colour mode is reasonable enough, but there's a good degree of signal noise which causes broken-up colour and an overall dotted effect. This is actually slightly worse when viewed in extra half-bright mode, occasionally giving a tartan feel to the whole image.

Normal HAM mode is passable, but not good. There's a distinct jagged appearance to the images, and sequential raster lines look as if they're made of slightly different shades. The Datel system digitises in 16 bits and the screen image is calculated from this data, even though it's actually displayed in six bitplanes because that's all the Amiga screen can actually manage.

The conversion process makes images look as if they're covered in differently coloured horizontal lines and these also appear on saved IFFs, so it's not just the screen display. You can save images as 24-bit or 16-bit IFF files, which is fine if you have a 16 or 24-bit art package to work on, but it's pretty pointless if all you have is *DPaint*.

I can't help thinking that you really do get what you pay for—the Datel system is cheap, and it shows. It's close to being a very good buy, but it's just a bit too ragged to be impressive or worthwhile. OK, so if there were a few better-quality components would have put the price up, but what good are cheap parts if they're in danger of falling off? If you can afford to buy a digitiser, save your pennies for something that will really get the job done well, rather than just done. ☹

Datel Digitiser

SPEED

Grabbing couldn't be faster, but the trade-off is slow mouse control. Very jerky. ●●●

DOCUMENTATION

A tacky manual lists the basic functions but doesn't really help if you're having problems. ●●

ACCESSIBILITY

Simple to connect to Amigas with a meg of RAM or more. Has problems with some hard drives. ●●●

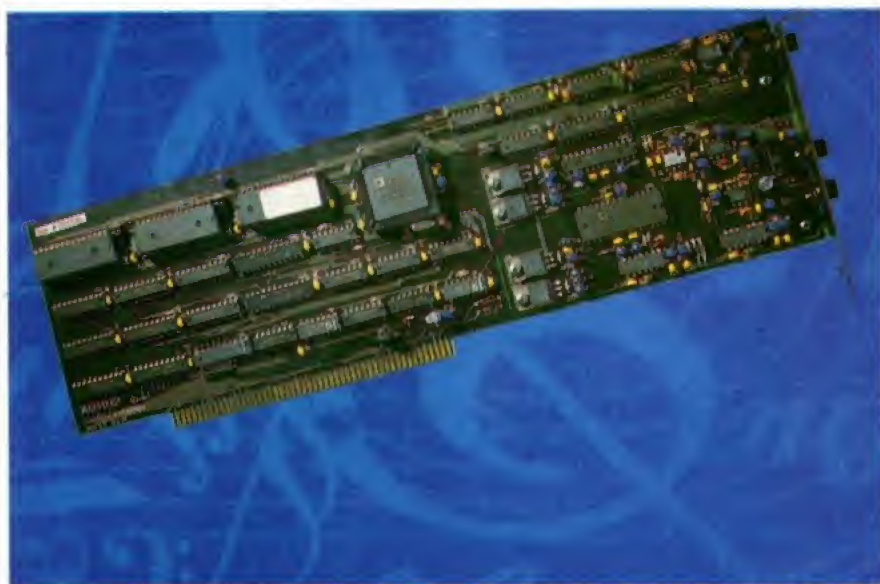
FEATURES

There are a few gimmicks and a few handy tools, overall functional with no real frills. ●●●

VALUE

At this price, there's nothing else, but the quality is a way short of professional gear. ●●●

AMIGA
Verdict
FORMAT
66%



Although direct-to-disk digital recording systems have been around for a while in film and recording studios, the Studio 16 package is a first for the Amiga. But is it any good? **Andy Nuttall** investigates.

Direct-to-disk technology comes to you in the form of the AD1012, a plug in Zorro II card for your A1500 or above.

AD 1012/Studio 16

Direct-to-disk Recording System ■ SunRize Industries ■ £468

AMIGA FORMAT

146

SEPTEMBER 1992

THE PROBLEM WITH traditional methods of sampling is that they are extremely hungry in terms of memory. Sampling systems generally require large amounts of RAM to store sounds, hence it is not possible to record anything longer than a couple of minutes without sacrificing quality.

The advent of low-cost, large-capacity hard disk drives has provided the answer to this problem. Professional audio equipment manufacturers have developed systems which can sample lengthy sounds and music and store the data directly on to hard disk. It is, of course, already possible to record digitally using Digital Audio Tape (DAT), but a direct-to-disk system has many advantages over this, including very fast access time and the ability to manipulate stored data quickly and easily. This makes it ideal for use in many industries such as television and film, where sound effects, music and dialogue could be stored on disk and easily synchronised with the pictures.

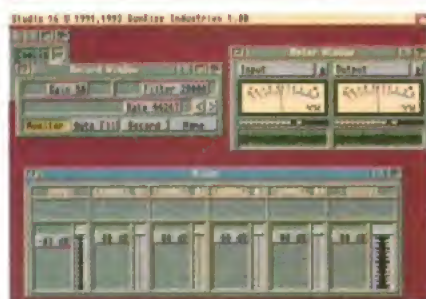
The AD1012/Studio 16 package is the first of its kind to be released for the Amiga. It comprises a plug-in card called the AD1012 which is used for sampling, and Studio 16, a software program which controls the card.

The AD1012 is manufactured to a high standard, and includes some quality features such as 12 bits of sample resolution and a separate digital signal processor (DSP) chip. This handles the sampling and storage on disk, and allows the system to be used as a simple effects unit.

Only one audio track may be recorded at any particular time, and it may then be edited as required. Although there is only actually one output channel, the card allows up to four different sampled sounds to be played simultaneously, creating four 'virtual' channels. A SMPTE time code input is provided allowing the sounds from the AD1012 to be synchronised with external equipment such as a



The editing window operates in a similar way to most ordinary sample editors, and includes some really powerful features.



The cleverly designed display shows each module as a separate window so that you can turn them on or off as you desire.

STUDIO 16 is available from HB Marketing 0753 686000

THINGS THAT GO BOOM!, BANG! AND SNAP! IN THE NIGHT

Once the filming of the latest blockbusting Hollywood movie is complete, and all the film has been edited, then the whole caboodle is taken to a 'dubbing studio'. This is where the sound effects, music and dialogue are added to the pictures. Until a few years ago the sound would first be recorded on to multitrack analogue tape, and then mixed on to the film. A big problem with this method, of course, was synchronising each part of the sound with the required piece of film.

In most dubbing studios nowadays, especially the big Hollywood types, a system known as Synclavier is used to record each bit of sound effect, music and dialogue directly to hard disk. The dubbing mixer will go through the film and mark each place where a piece of audio track is required, while the Synclavier tracks the position of the film using a special code known as SMPTE. After completion the film is played back, and the Synclavier system will track the SMPTE code and play each recorded sound in the stored position. Any mistakes are corrected, and then all of the sound is dubbed on to the film itself.

Synclavier systems are both incredibly powerful and incredibly expensive, costing over £100,000 for a basic set up, but now for under 500 quid you can dub your home movies using your Amiga!

professional video recorder or a multitrack tape recorder.

The AD1012's sound quality is really excellent. The clarity of the samples which may be achieved is outstanding, and the real-time effects are as good as most dedicated reverb units.

The Studio 16 software consists of several modules, each controlling a different aspect of the AD1012, which link together to form a fairly powerful sample editing, monitoring and playback system. Each module may be displayed independently on screen in the form of a window, so you don't have to display anything you're not using. Generally the software is clear, effective and reasonably easy to use, but it does have a couple of faults.

The samples are not compressed before they are stored to disk, and so storage space is eaten up extremely quickly. With a 52 Mb hard disk for example, and a sampling rate of 44.1KHz (similar to a CD player), you can expect around 10 minutes of sampling time – assuming you have nothing else stored on the disk, of course – and so the system would have very little practical use in a recording studio. In addition to this, should the current sample fill up all the available space, the system responds with an error message and sometimes crashes your machine! This is especially bad considering Studio 16 is such a hard disk intensive program.

Having said all that, if you are a video editor who wants a direct-to-disk recorder which will allow you to synchronise sound effects and short dialogue pieces with your films, then this package could be an excellent buy. And as long as you are careful, you should have enough room on your hard drive.

Studio 16

- SPEED** ●●●
Runs on a standard A1500 or above, but works more efficiently using an accelerator card.
- DOCUMENTATION** ●●●●
The manual contains all the necessary information, although it's a bit over-technical in places.
- ACCESSIBILITY** ●●●
Fairly easy to get into and record sounds, but playing them back is a bit more difficult.
- FEATURES** ●●●
No data compression facility, otherwise packed with top-quality features.
- VALUE** ●●●
Excellent, top-quality hardware, marginally let down by user-friendly but quirky software.



73%

RICOH PCL5 LASER PRINTER

Ricoh UK Ltd is part of the worldwide Ricoh Group of companies, originally established in Japan, in 1936. With a turnover of over \$5 billion and 37,000 employees, Ricoh has been producing computers and peripherals since 1971 and are the world's second largest manufacturer of Laser Printer engines. Ricoh have employed their expertise to produce a 'first' in laser printers for the world market, the LP1200 with FLASH ROM.

Fully HP LaserJet III™ compatible, the new LP1200 employs industry proven laser technology. Unlike LED page printers, which use light emitting diodes, the LP1200's laser lightsource, focussed by high quality lenses, is able to produce the most accurate and intense printed images. It has 2Mb of RAM built-in and requires no additional RAM to print a full A4 page of graphics at 300dpi. Its fast, efficient processor and engine, together with a straight paper path design, allows printing at a full 6 pages per minute. Unlike its competitors, this advanced laser engine enables the LP1200 to address a range of print resolutions up to 400dpi. A new driver will soon enable the Ricoh LP1200 to print at 400dpi from Windows 3 (2Mb RAM upgrade required).

Again, unlike the competition, the LP1200 includes a powerful document description language as standard. This language, 'LAYOUT', offers unique opportunities to develop custom-made printing systems. Forms and document templates can be designed and stored electronically in the LP1200's FLASH ROM, alleviating the need for pre-printed forms!

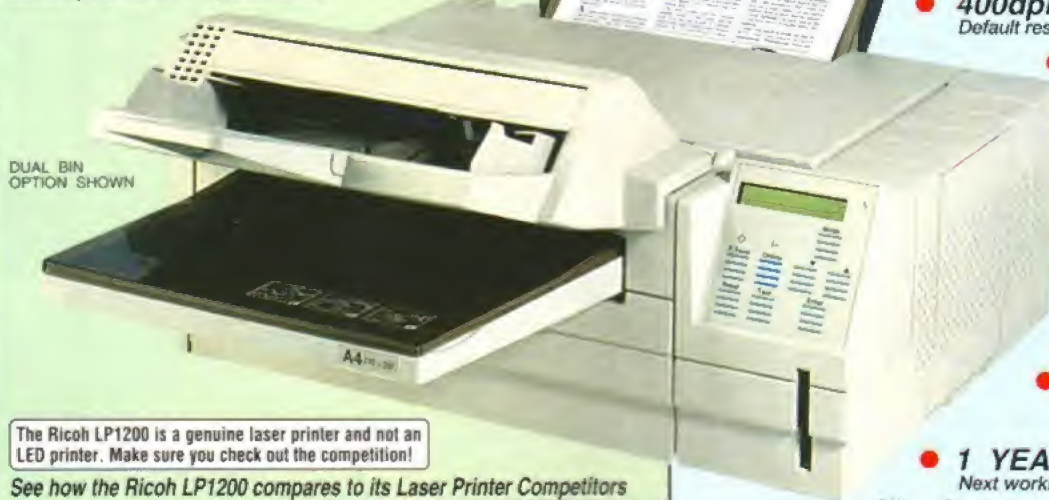
FULLY HP LASERJET III™ COMPATIBLE

400 dpi 2Mb RAM 6 PPM

FLASH ROM UPGRADABLE!

**COMPUTER SHOPPER
BEST BUY**

- **6 PAGES PER MINUTE**
Using a straight paper path
- **PCL5 - INC HP-GL/2**
Latest version with scalable fonts
- **SHARP EDGED PRINTING**
Ricoch FIAL (Fine Image ALgorithm) enhances resolution
- **400dpi RESOLUTION** (Requires 4Mb RAM)
Default resolution - 300dpi. Will address 200, 240 and 400dpi.
- **2Mb RAM AS STANDARD**
For a full A4 page of graphics at 300dpi.
- **UNIQUE FLASH ROM**
For controller upgrade and storage
- **IC CARD SLOT** (PCMCIA/JEIDA Compatible)
For programmable FLASH ROM cards
- **EXPANSION BOARD SLOT**
For improved connectivity to additional systems eg. PC-LAN, FAX etc
- **LAYOUT**
Document Description Language
- **SERIAL + PARALLEL PORTS**
For connection to PC compatibles and other computers
- **1 YEAR ON-SITE WARRANTY**
Next working day response



DUAL BIN OPTION SHOWN

The Ricoh LP1200 is a genuine laser printer and not an LED printer. Make sure you check out the competition!

See how the Ricoh LP1200 compares to its Laser Printer Competitors

FEATURES	EPSON EPL4100	HP LJ/ET IIP	MANNESMANN TALLY 904+	RICOH LP1200
Average Street Price (expected)	£569	£699	£699*	£699
Official RRP	£945	£1,179	£1,099	£1,195
Maximum resolution in dots per inch	300x300	300x300	300x300	400x400
Windows 3 Driver @ 400 dpi (July)	-	-	-	YES
Print Speed	6ppm	4ppm	4ppm	6ppm
Straight Paper Path	YES	-	-	YES
PCL 5 Printer Command Language	-	YES	YES	YES
HP-GL/2 Vector Graphics included	-	YES	YES	YES
Resolution Improvement/Enhancement	YES	YES	YES	YES
Full A4/300 dpi graphics with standard RAM	-	-	-	YES
Warm Up Time	<45 secs	<60 secs	50 secs	45 secs
First Page of Text Output	<20 secs	<40 secs	34 secs	<15 secs
Document Description Language included	-	-	-	YES
Flash ROM	-	-	-	YES
Upgradable Firmware	-	-	-	YES
IC Card Slot	YES	-	-	YES
Scalable Resident Fonts - in HP LJ III Emulation	-	8	8	8
Resident Bit-Mapped Fonts	11	14	14	14
AGFA Intellifont Scalable Font Technology	-	YES	-	YES
HP LaserJet III Emulation Included	-	YES	YES	YES
EPSON FX Emulation Included	YES	-	YES	YES
IBM ProPrinter Emulation Included	-	-	YES	YES
Standard Tray Capacity	100	70	100	100
Protective cover on standard tray	YES	-	YES	YES
Cost per copy*	1.65p	2.00p	1.71p	1.65p
Min-Max Paper Weight in gsm	60-157	60-105	60-120	60-157
Able to print on OHP Film	YES	YES	YES	YES
Able to print on card (157gsm - Manual Feed)	YES	-	-	YES
Auto Sensing on Parallel and Serial ports	YES	-	-	YES
Standby - Noise Level	<40dB	31.7dB	<35dB	<38dB
Printing - Noise Level	<50dB	43.3dB	<46dB	<48dB

*Cost per copy as quoted by manufacturers - 2/4/92 E & O

All Trademarks are acknowledged

Silica Systems are pleased to introduce the revolutionary, new Ricoh LP1200. It has all of the specifications that you would expect to see in today's most technically advanced laser printers, plus a unique additional feature which places it far ahead of the competition - FLASH ROM. This 'Future Proof' technology protects the investment you make when you buy a Ricoh LP1200, as it enables you to keep up to date with new laser firmware developments. FLASH ROM is an area of memory inside the LP1200 which holds the printer's controller instruction firmware. If new firmware is developed, updated printer command languages etc, can be downloaded into this memory. Other manufacturers would require you to buy a new printer! Fonts, macros, graphics and additional emulations can also be stored in FLASH ROM, or on removable, industry standard FLASH ROM IC cards. The new Ricoh LP1200 is the only laser printer to offer this FLASH ROM facility.

LP1200 WITH SINGLE BIN & 2Mb RAM SILICA PRICE:
£699
+VAT= £821.33 Ref: LAS 5200

MONEY SAVING OPTIONS

Save money now by purchasing the LP1200 with the dual bin and/or 2Mb RAM upgrade.
Normal price of 2nd feeder bin £135.
Price if purchased with LP1200 £100.
SAVE £35

Normal price of extra 2Mb RAM £230.
Price if purchased with LP1200 £150.
SAVE £80

	SINGLE BIN	DUAL BIN
2Mb RAM	£699 +VAT= £821.33 Ref: LAS 5200	£799 +VAT= £938.83 Ref: LAS 5200 + LAA 5200
4Mb RAM	£849 +VAT= £997.56 Ref: LAS 5200 + LAA 5202	£949 +VAT= £1116.08 Ref: LAS 5200 + LAA 5202 + LAA 5202

SILICA SYSTEMS OFFER YOU

- **FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.
- **TECHNICAL SUPPORT HELPLINE:** Team of technical experts at your service.
- **PRICE MATCH:** We normally match competitors on a "Same product - Same price" basis.
- **ESTABLISHED 12 YEARS:** Proven track record in professional computer sales.
- **BUSINESS + EDUCATION + GOVERNMENT:** Volume discounts available 081-308 0888.
- **SHOWROOMS:** Demonstration and training facilities at our London & Sidcup branches.
- **THE FULL STOCK RANGE:** All of your requirements from one supplier.
- **FREE CATALOGUES:** Will be mailed to you with offers and software/peripheral details.
- **PAYMENT:** By cash, cheque and all major credit cards.

Before you decide when to buy your new laser printer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals or consumables, or help and advice with your new purchase. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for over 12 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

MAIL ORDER HOTLINE
081-309 1111

SILICA SYSTEMS



MAIL ORDER: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-309 1111
Order Lines Open: Mon-Sat 9.00am-6.00pm No Late Night Opening Fax No: 081-308 0608

LONDON SHOP: 52 Tottenham Court Road, London, W1P 0BA Tel: 071-580 4000
Opening Hours: Mon-Sat 9.30am-6.00pm No Late Night Opening Fax No: 071-323 4737

LONDON SHOP: Selfridges (1st Floor), Oxford Street, London, W1A 1AB Tel: 071-629 1234
Opening Hours: Mon-Sat 9.30am-6.00pm Late Night: Thursday until 8pm Extension: 3914

SIDCUP SHOP: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-302 8811
Opening Hours: Mon-Sat 9.00am-5.30pm Late Night: Friday until 7pm Fax No: 081-309 0017

To: Silica Systems, AMFOR-0992-75, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX
PLEASE SEND INFORMATION ON THE RICOH LP1200

Mr/Mrs/Miss/Ms: Initials: Surname:

Address:

Postcode:

Tel (Home): Tel (Work):

Company Name (if applicable):

Which computer(s), if any, do you own?

If you're into Amiga graphics, you just have to be keen on getting a 'true colour' card so that you can use 16 million colours. Now, for the first time, you can afford it. **Brian Larkman** tries out the 'true colour' bargain of the year...

AVideo 24

24-bit Display Board ■ £600 ■ ARCHOS

IF YOU'RE A graphics enthusiast but you don't own your own airline, you must have found it pretty frustrating looking at all the expensive 24-bit software adorning the pages of *Amiga Format* for the last 18 months. 'True Colour', with its 16 million colours and photo-realism, is not only the future of computer graphics but is also pretty fun stuff. But it costs *soo* much...

Fear not though, because your days of jealousy are over. Here's a 12-bit and 24-bit display board which costs only £600 and comes packaged with *TVPaint*, the now famous 24-bit paint program. The bad news is that it needs an '030 accelerator and 4Mb of RAM to run *TVPaint*. Still, even those come pretty cheap these days. It should be possible to give a normal A500 complete True Colour capability for less than £1,500. Wow!

Fitting AVideo involves a warranty-eating delve into the bowels of your machine. Graphics chip Denise must be gently removed from her socket and inserted into the tiny AVideo board, then the board is placed into Denise's socket on the motherboard.

Overall, not too difficult a job, unless you have Zap-fingers — and there is only one way to find out. Surface-mounted chips in the A600 mean that the board won't fit in one; Checkmate promise an A600 adaptor, but they will probably need to fit it.

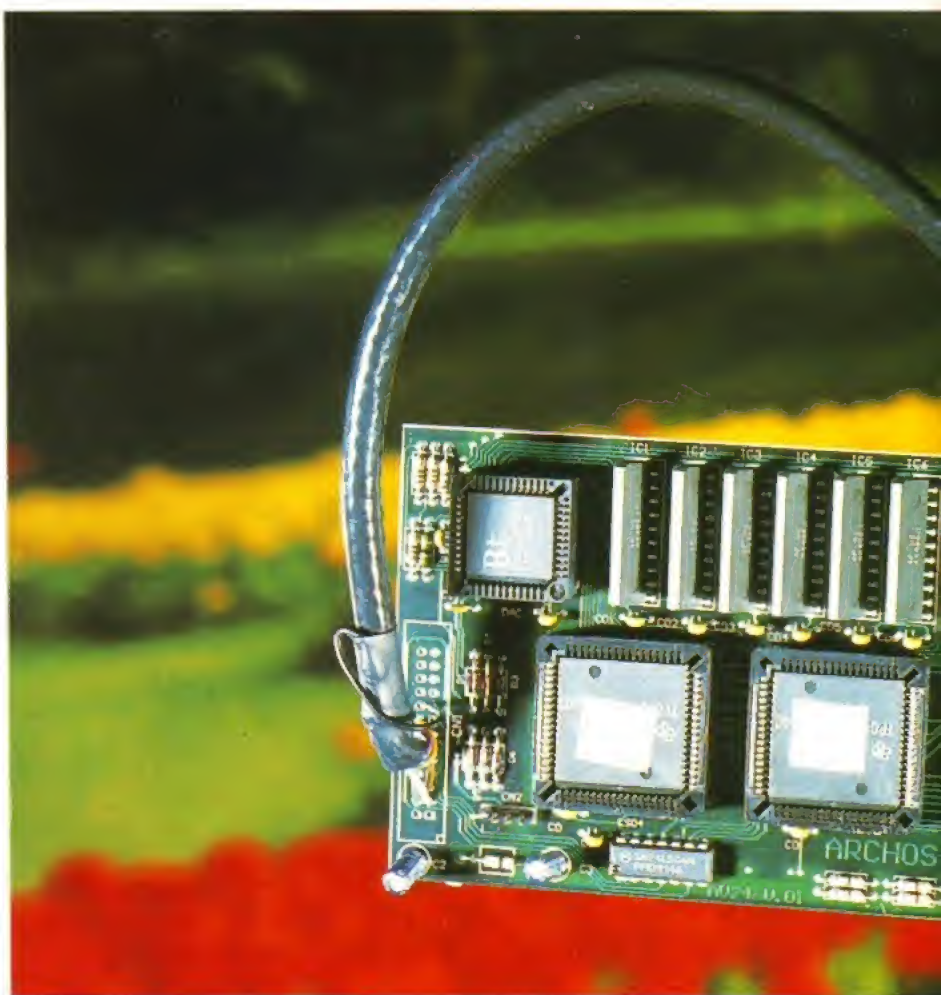
Connected to the board is a standard Amiga Video Out socket attached to an A1500/A3000 Zorro II backplate. If you want to fit AVideo in an A500, you'll have to make a hole in the Amiga's case for the leads and the Zorro backplate gets left just hanging out of the back. The ads don't mention this.

Software installation is easy, unless you are nervous about tampering with the private parts of your hard drive. Just double-click the

AVideo 24 is available from Checkmate Digital 071-923 0658

The AVideo hardware is not only tiny — small enough to bring true colour graphics even to an Amiga 500 — it's very cheap too!

AVideo is also available in a much cheaper 12-bit version. To show the difference in quality, the image on the left is in 12-bit colour and the image on the right is 24-bit colour. The difference is extremely subtle, but the 24-bit version has smoother and subtler tones.



InstallAV icon and it sprays the necessary bits about all over your system. You gotta have a lotta faith in the writers of these install scripts.

The video output from the AVideo board can be viewed in several ways. First off, your normal Amiga monitor can display the 12 most significant bits of AVideo memory — which means you get a 12-bit (4096-colour) approximation of your 24-bit image.

This can also be combined with the Amiga's foreground image and if your Workbench has a background of Colour0, the AVideo output will show through, much like a genlock. If an actual genlock is connected with a special cable supplied by Archos, live video can also be displayed, showing through the Colour0 areas of the AVideo image. In other words, three levels of signal can be overlaid.

Output from the A3000 VDE port or an A1500 video slot 'flicker fixer' can be used via a MultiSync or VGA monitor. The AVideo signal is 'flicker-fixed' just like any normal Amiga signal would be.

Alternatively, if you prefer simply to connect a standard monitor to the AVideo board's own port you get full 24-bit output, also combined with the Amiga's normal output.

Full double buffering is also provided from either of these sources, the 24-bit buffer being split into two 12-bit buffers, which means you can get fast animation. Speed is also greatly improved on the latest version of AVideo by hardware compression.

If set-up is easy, using the board is another matter. AVideo is, of course, a 'young idea' and needs lots more third-party software to make full use of it. It is fully Arexx-equipped so *Art Department Pro*, *ImageMaster*, *VLab* and many other systems can use it. If *Imagine* or *Real3D* had Arexx ports, so could they.

AVideo comes with 'display software' called *Opera* that can be used to control all of the board's facilities including animation. In effect it is an Arexx interpreter, so unless you understand Arexx or have the AVideo manual (not yet translated from the original French), it is fairly difficult to use for more than displaying a picture sequence.

This is becoming a common problem for artists and designers who want to use the Amiga. Packages like *ADPro*, *ImageMaster* and AVideo assume knowledge of Arexx that many of the most likely users — artists and designers — are unwilling to gain. The growth of Arexx support provides great opportunities to combine features from paint, image processing and 3D programs, but the task is beyond any non-programmer.





WHAT'S ON DISPLAY FOR THE AMIGA?

AVideo is just the latest in a series of 24-bit display devices produced for the Amiga by third party developers. They are trying to fill the gap in the Amiga's display capabilities compared to the latest PCs and Macs.

AVideo has several advantages — it is cheap, can display in 12 as well as 24-bits, allows several layers of display under the Workbench, like a genlock, and, most importantly, it can be used to animate sequences of 12-bit images at reasonably high frame rates.

Several other display devices are available with some or all of these capabilities...



HAM-E (£299 Black Belt, 90% Issue 27 page 44) uses a display trick to produce an 18-bit, lo-res display, but it is cheap, and produces small files. It animates with normal animplayers, uses the

ordinary Amiga Workbench, and all software behaves normally at normal resolutions, though the hardware excludes the use of a flicker fixer. A rather poor paint package and excellent image processing software come free. At present HAM-E seems to be unavailable — all Black Belt will say is they have signed a non-disclosure agreement.



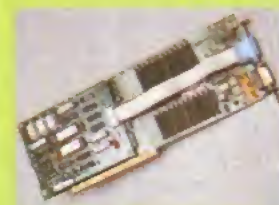
DCTV (£299 Digital Creations 90% Issue 31 page 127) has a rather soft composite output. This is not true 24-bit but gives a true colour effect. It includes digi-

tiser hardware and very good paint package and image processing software. Needs 5Mb to run though. Small files are created. It animates, but you need an accelerator. YV version on its way, with better quality.



IV24 (around £1600, GVP, not yet reviewed) is a full 24-bit card including flicker-fixer, 24-bit RGB frame grabber, picture-in-picture display, analogue and RGB genlock, plus a

12-bit double buffer. Bundled software is Macro Paint, Caligari and Scala but in cut down versions.



ACS Harlequin (from £1000, Amiga Centre Scotland, not reviewed) a full broadcast-quality 24/32-bit card with double buffering and eight-bit alpha channel. Harlequin is perhaps the

best-supported card for 24-bit software with an excellent paint package — TVPaint — three image processing systems, a YUV frame grabber, broadcast quality genlocks and much more. Recently-developed software allows full 24-bit animation of a 320x256 area of screen.

What we need is a control program with a straightforward, attractive, graphical interface allowing users to select a range of features from any program that supports Arexx and make them available together. This approach is called Object Oriented Programming, but for Amiga users it is only a dream. Still, it would be an immense step forward if the power of Arexx could be more accessible.

Arexx and AmigaDOS commands provided with AVideo allow sequences of images generated in 3D programs or elsewhere, in anything from 24-bit colour down, to be made into animations that use AVideo's own 12-bit 'AVNM' format.

These can be replayed in overscan high-resolution, full screen, at up to 25 frames per second on AVideo using double buffering and hardware animation. The conversion to AVNM format is quick and easy.

It would be relatively easy for ImageMaster, and maybe even Imagine or Real3D, to direct 24-bit output to AVideo, making full 12-bit animations on the fly as an alternative to HAM. Archos are also working on a more powerful animating version of AVideo that will be external to the Amiga, and will include a 24-bit frame grabber.

Currently the only software that can easily use AVideo24 is TVPaint — but then for some of us that will be enough. Check the full review in Amiga Format 35, but here we will just review the changes made to accommodate the AVideo hardware.

It is perhaps a little unfair to compare TVPaint running on the AVideo board (TVP-AV) with the same program run on the ACS Harlequin 24-bit framebuffer, because the latter costs up to four times as much. But we will.

The Harlequin version of TVPaint costs £800, so what extra do you get for your money? The short answer is usability.

On the Harlequin, TVPaint is supremely smooth and fast-acting, allowing large 24-bit brushes to paint as fast as they would with 32 colours in Deluxe Paint III. On the AVideo24 board, TVPaint is much more jerky and 'sticky', which means it is simply unacceptable for professional work.

But, that said, most of the features work well enough for domestic and 'enthusiast' applications. In time you get used to the slow response and it becomes less annoying — it is certainly better than the 'Paint' section of ImageMaster reviewed in our last issue.

The other main difference between the two is that on the Harlequin all work is carried out on a 24-bit screen. In normal use the AVideo version works on a 12-bit screen — equivalent to HAM in high resolution without the fringing, but also without dithering.

Most of the time the obvious colour 'ramping' bands, that dithering might prevent, are reasonably acceptable, and if you wish to see the full 24-bit image displayed, that only requires a menu selection.

The biggest problem of working in 12 bits, though, is that when you are working in the special modes — Shift, Smear and so on — the effects cannot be seen properly and spontaneity is limited. You have to keep viewing in 24-bits and then using Undo.

Overall, TVPaint for AVideo is acceptable for serious painting and fun for playing with, but I wouldn't want to do any major work with it. Nevertheless, AVideo is a real bargain for Amiga 24-bit graphics.

To put things in perspective, you can get a Mac IIsi with a 24-bit card, VGA monitor and a good 24-bit paint package all for about the same price as a basic Amiga capable of running AVideo. Nevertheless, once AVideo is supported by more packages like ADPro and Real3D it will be invaluable. ☺

AVideo 24

SPEED

Animation in 12-bits is amazing — but TVPaint is pretty sticky. ●●●

DOCUMENTATION

Lots of ReadMe's. ●

ACCESSIBILITY

It's easy to set-up, but best features only from Arexx. ●●●

FEATURES

Fast True Colour animation and 24-bit colour on the WorkBench. ●●●●

VALUE

TVPaint at 25% off — with a 24-bit display board thrown in free. ●●●●

AMIGA
Verdict
FORMAT

80%

OVER 500 QUALITY AMIGA PRODUCTS

DESK TOP VIDEO PERIPHERALS

ROCGEN PLUS £129.99

A superb value Genlock with overlay & ladder controls - RGB pass thru.

ZYDEC SCANNER £99.99

In our experience, this is by far the best B/W hand scanner in this price bracket.

VIDI 'The Complete Solution'	£139.99
VIDI	£89.99
RGB SPLITTER Rombo Electronic type	£57.99
ROCGEN GENLOCK SAVE £65	£99.99
SUPERPIC - Colour Digitiser & Genlock	£499.99
SUPERPIC ANIMATE	£629.99
COLOURPIC colour digitiser	£419.99
COLOURPIC ANIMATE	£529.99
CABARET FOR COLOURPIC/SUPERPIC	£28.99
CABARET PLUS	£87.99
RENDALE SUPER 8802 SVHS GENLOCK	£499.99
HITACHI MONO CAMERA	£179.99
G2 VIDEOCENTRE PLUS - SUPERB	£1099.99

DIGIVIEW MEDIATION STATION

DIGIVIEW GOLD DIGITISER (the best for use with a camera) • DIGIPAIN 3 • ELAN PERFORMER ALL 3 FOR JUST £129.99

ACCESSORIES & SPARES

AMIGA ROM SWITCH

Our Keyboard operated Two way Rom switch enables you to use either of 2 Workbench rooms. To switch over, just hold down Control / Amiga / Amiga keys until you hear a beep. (Release them before the beep to 'warm start' with the current rom.) Only £27.99 (excl. roms)

Please state which you have Amiga when ordering.

KICKSTART 1.3 ROM	£29.99
KICKSTART 2 ROM ONLY	£39.99
OFFICIAL WKBENCH 2 UPGRADE KIT	£79.99
FATTER AGNUS 8372A	£30.99
SUPER DENISE	£39.99
GARY	£39.99
8520A I/O CHIP (Drive & printer port)	£15.99
A520 MODULATOR	£29.99
AMIGA INTERNAL DRIVE NOW	£59.99
MAINS SUPPRESSOR BLOCK 4WAY	£12.99
UPGRADED A500 POWER PACK NOW	£39.99

EXTERNAL DRIVE POWER SUPPLY £29.99

This new product powers up to 3 external Amiga floppy disk drives. By relieving the Amiga power supply of this burden (for which it was not designed), you will increase its reliability considerably. Just plugs straight in.

ACCELERATORS & EMULATORS

GVP G-FORCE 68030 ACCLER from	£599.99
GVP G-FORCE 68040 (28MHz) ACCLER	£199.99
PC286 EMULATOR FOR GVP DRIVES	£249.99
KCS PC CARD v3 + DO54	£204.99
KCS WITHOUT MSDOS	£189.99
KCS 2000 PC BOARD ADAPTOR	£64.99
AT ONCE PLUS 16MHz PC EMULATOR	£219.99
IMPACT VISION 24 VIDEO CARD	£154.99
A1500/2000 ADAPTOR FOR ABOVE	£39.99
ALL GVP PRODUCTS AVAILABLE	



UNIT 1,
253 NEW WORKS RD,
BRADFORD, BD12 0QP

HOW TO ORDER.

FAST MAILORDER SERVICE. FAX 0274 - 600150
Order by phone using your ACCESS, VISA, SWITCH, CONNECT OR AMERICAN EXPRESS CARD.
Order by Mail - sending cheque, bankers draft or postal orders made payable to TRILOGIC.
Please add part postage & packing of £1.00 to orders under £100 or £2.00 to orders over £100.
Optional 48hr delivery - add £3.50. Overnight carrier - add £5.50. (May take longer for outlying, remoter areas. (UK Mainland only). Saturday delivery - add £12.00. Datapost service available P.O.A.
EXPORT ORDERS WELCOME. No vat - deduct 171/2% , but add carriage at cost.
Open Mon-Fri 8 till 6, Sat 8-4pm. Commodore dealer since 1984

Callers welcome - we're easy to find, just 1.5miles from the M62. Easy parking. Leave M62 at junction 26, take A638 to Bradford, uphill, after about 1.5 miles & just past the park, turn left once over a railway bridge. After 1/4mile, look for us on left opposite a PO mail box.

MICE, JOYSTICKS, TRACKBALLS

NAKSHA MOUSE + OPERATION STEALTH OUR PRICE - £24.99

Includes Mouse mat & holder

BUDGET REPLACEMENT MOUSE*	£15.99
CDTV KEYBOARD - BLACK	£49.99
CD TV TRACKBALL CONTROLLER	£69.99
GRAVIS MOUSE STICK CONTROLLER	£65.99
DELTA 3A ANALOGUE JOYSTICK	£14.99
ZIPSTICK AUTOFIRE	£13.99
QUICKJOY SUPERSTAR	£13.99
QUICKSHOT TOPSTAR	£19.99
QUICKSHOT INTRUDER JOYSTICK	£29.99
MEGA STAR HEAVY DUTY JOYSTICK	£26.99
SPEEDKING AUTOFIRE	£11.99
CHEETAH BUG JOYSTICK	£14.99
OPTICAL MOUSE	£37.99

MOUSE / JOYSTICK PORT SWITCH £12.99

- * Has sockets for mouse & joystick.
- * Push button selects mouse or joystick.
- * Uses no power unlike other types.
- * Compatible with many dongles.
- * Saves wear & tear on mouse port.

AMIGA BOOKS

* - PRICE INCLUDES PROGRAM DISK

AMIGA FOR BEGINNERS	£14.99
AMIGA BASIC INSIDE & OUT	£21.99
AMIGA SYSTEM PRO GUIDE	£32.45
ADVANCED SYS PROG GUIDE	£32.45
AMIGA DISK DRIVES 1 & 0	£27.95
AMIGA DOS INSIDE OUT	£22.99*
AMIGA PRINTERS 1 & 0	£31.95
AMIGA DESKTOP VIDEO	£23.95
AMIGA 3D GRAPHICS	£17.95
MAKING MUSIC ON AMIGA	£27.99*
AMIGA GRAPHICS 1 & 0	£31.95
AMIGA MACHINE LANGUA	£17.99
AMIGA C FOR BEGINNERS	£17.99
AMIGA C FOR ADVANCED PROGRMS	£27.99
AMIGA DOS MANUAL (BANTAM)	£22.95
BEST AMIGA TRICKS & TIPS	£24.99*
MAPPING THE AMIGA	£20.95
MACHINE LANGUAGE FOR BGINRS	£19.95
ELEMENTARY AMIGA BASIC	£14.95
ADVANCED AMIGA BASIC	£16.95
USING AREXX ON THE AMIGA	£26.99
FIRST BOOK OF THE AMIGA	£16.95
USING DELUXE PAINT	£19.95
THE IMAGINE COMPANION	£24.95*
USING IMAGINE 2	£24.95
HARDWARE REF MANUAL	£21.95
AMIGA USER INTERFACE GUIDE	£18.99
68000 ASSEMBLY LANGUAGE PROGR	£24.95
AMIGA ROM KERNEL REFERENCE BOOKS - 2	
AVAILABLE - LATEST EDITIONS each	£28.95
VIDIA PAGERSTREAM GUIDE	£4.95
LITTLE BLUE WORKBENCH 2 BOOK	£14.95

MOST AMIGA BOOKS STOCKED

DISKS & DISK BOXES

150 SIZE POSSO MEDIA BOX	£19.99
40/50 SIZE LOCKABLE BOX	£6.99
80 SIZE LOCKABLE BOX	£7.99
100 SIZE LOCKABLE BOX	£8.99
TDK BRANDED inc labels	£7.99 / 10

DUST COVERS

SEAL n TYPE KEYBOARD SKIN.
Waterproof & moulded to fit snugly over each key, but flexible enough to type thru.
AMIGA 500, 500+, 1500, 2000 £12.99
(State which when ordering please)

SALES:
0274-691115

BACKUP UTILITIES

X COPY PRO £33.99

Latest version - complete with Cyclone external drive adaptor. Highly successful.

X COPY CYCLONE ADAPTOR £12.99

AMI SUPERCARD £34.99

(Requires an external drive)

OTHER DISK UTILITIES

ACTION REPLAY FOR A500 £57.99
ACTION REPLAY FOR 2000 £67.99

NB. Making backups without the permission of the copyright holder is illegal.

TOP 30 AMIGA GAMES

ADDAMS FAMILY	£17.99
ANOTHER WORLD	£17.99
AGONY	£17.99
AIR LAND & SEA	£24.99
AWARD WINNERS	£17.99
BLACK CRYPT	£17.99
CASTLES	£19.99
CHUCK YEAGERS ADV FLT	£7.99
CHART ATTACK	£19.99
EPIC	£21.99
FORMULA 1 GRAND PRIX	£24.99
F15 IF	£24.99
GOLF	£24.99
GODS	£17.99
HARLEQUIN	£17.99
JAGUAR XJ220	£17.99
JIMMY WHITE SNOOKER	£19.99
JOHN BARNES	£17.99
KNIGHTS OF THE SKY	£24.99
LOTUS TURBO CHALLENGE	£17.99
LEMMINGS 1.1 DATA DISK	£12.99
OH NOT MORE LEMMINGS	£17.99
MEGALOV 1ST SAMURAI	£20.99
MI TANK PLATOONB	£24.99
PAPERBOY 2	£17.99
RACE DRIVIN	£17.99
SHADOWLANDS	£19.99
STEEL EMPIRE	£19.99
SUPERSKI	£17.99
THUNDERJAWS	£17.99
THUNDERHAWK	£20.99
ULTIMA 6	£20.99
VROOM	£17.99
WOLFBUILD	£17.99

PLEASE PHONE IF THE LATEST GAMES ARE NOT LISTED

EDUCATIONAL SOFTWARE

MORE TITLES IN NEXT COLUMN

BETTER MATHS (12-16 YRS)	£19.99
BETTER SPELLING (8-1)	£19.99
COMPENDIUM 6	£29.99
FIRST SHAPES (3-4 YRS)	£12.99
FIRST LETTERS & WORDS (3-8)	£12.99
FUN SCHOOL RANGE	£19.99
JUNIOR TYPIST (5-12)	£19.99
KID'S TYPE	£16.99
LETS SPELL SERIES	£14.99
MAGIC STORY BOOK	£17.99
MATHS TALK (5-13 YRS)	£18.99
MATHS TAL FRACTIONS	£18.99
MAVIS BEACON TYPING	£24.99
MICRO RANGE (LCL)	£19.99
MONEY MATTERS (4-7 YRS)	£13.99
PAINT ME A STORY (3-10)	£21.99
PUZZLE BOOKS 1 & 2	£17.99
TARGET MATHS (4+)	£13.99
THINGS TO DO WITH. SERIES	£16.99

MIDI INTERFACE 2

Our unique 5 port Midi interface 2 has In, Out & Thru sockets plus two additional switchable out / thru sockets for ingenious versatility.

NOW ONLY £27.99

Extra Midi lead 1.2m £1.99

Extra Midi lead 3m £3.99

STEREO SAMPLER 2

Our Superb sounding STEREO SAMPLER 2 uses a state of the art A/D chip which samples so fast, it captures every detail of the sound. Easily adjusted level control, connecting lead & free stereo sampling software. Fully compatible with all popular sampling software. NOW ONLY £39.99

SUPERFI 2 STEREO SYSTEM

We've looked high & low for a POWERFUL, QUALITY stereo speaker system for use with Computers, keyboards, Stereo VCRs, Satellite Systems & Walkmans. Now we've found one - it is a 20 watt per channel, directly mains powered, 3 way speaker system. It has Bass, treble & volume controls & comes with connecting leads. Frequency response: 32Hz - 20KHz. ONLY £54.99

TOP AMIGA PROGRAMS

ADVANTAGE	NOW	£69.99
AMI ALIGNMENT		£42.99
AMIBACK	NEW	£44.99
AMAS 2		£89.99
AMIGA VISION		£89.99
AMOS		£34.99
AMOS - EASY	NEW	£26.99
AMOS 3D		£25.99
AMOS COMPILER		£22.99
ART DEPARTMENT PRO		£149.99
AUDITION 4		£38.99
AUDIOMASTER 4		£54.99
AUDIO ENGINEER		£179.99
BARS & PIPES		£109.99
BBC EMULATOR	ONLY	£30.99
BROADCAST TITLER 2		£169.99
CAN DO 1.6	NEW	£69.99
CASH BOOK CONTROLLER		£54.99
CROSS DOS		£27.99
DATAWORD		£13.99
DAY BY DAY		£23.99
DELUXE PAINT 4.1	NEW	£64.99
DELUXE MUSIC	NEW	£49.99
DELUXE VIDEO 3		£74.99
DEVPAC 3 - new version		£51.99
DG CALC		£22.99
DINOSAUR DISCOVERY KIT		£17.99
DIRECTORY OPUS		£29.99
DISK MASTER		£39.99
DISK MASTER 2		£49.99
DR TS TIGER CUB	A GIFT	£79.99
E TYPE		£29.99
EXPERT DRAW	NEW	£49.99
EXPERT 4D JNR	NEW	£37.99
EASY AMOS	NEW	£26.99
EXCELLENCE		£59.99
EXOTIC CARS FOR IMAGINE		£34.99
FLOW v3.0		£54.99
FRENCH MISTRESS	NEW	£18.99
GERMAN MASTER	NEW	£18.99
GB ROUTE PLUS		£59.99
GOLD DISK OFFICE	NEW	£99.99
HIGH SPEED PASCAL		£74.99
HISOFT BASIC		£49.99
HISOFT BASIC PROFESS		£59.99
HOME ACCOUNTS 2		£39.99
HOMEBASE	NEW	£24.99
HOTLINKS	NEW	£53.99
HYPERBOOK		£44.99
IMAGINE 2	NEW	£199.99
IMAGINE OBJECTS DISK		£84.99
ITALIAN TUTOR	NEW	£16.99
INTROCAD PLUS		£74.99
KINDWORDS 3	NEW	£39.99
LATTICE C v5/ASAC		£169.99
LINKWORD FOR TOURISTS		£21.99
MACRO 68000 ASSEMBLER		£39.99
MAILSHOT PLUS		£39.99
MAXIPLAN V4	NEW	£99.99
MEDIA SHOW		£54.99
MEGAMIX MASTER	NEW	£29.99
MUSIC X v1.1	BARGAIN	£54.99
MUSIC X JUNIOR		£39.99
PAGESTEAM 2.2		£159.99
PAGE SETTER 2		£44.99
PEN PAL	SELL ONLY	£54.99
PERSONAL TAX PLANNER		£29.99
PERSONAL FINANCE MANG		£24.99
PLANETS		£24.99
PROFESSIONAL CALC		£139.99
PRODATA	NEW	£75.99
PROFESSIONAL DRAW 2		£94.99
PROFESSIONAL PAGE 3		£169.99
PROTEXT v.5.2	NEW	£99.99
PROWRITE v3.2		£89.99
QUARTERBACK		£44.99
QUARTERBACK TOOLS		£49.99
QUARTET		£37.99
REAL 3D BEGINNERS		£79.99
SCALA 500		£74.99
SCALA PROFESSIONAL		£199.99
SCULPT 3DXL		£109.99
SCULP ANIMATE 4D JNR		£79.99
SONIX		£34.99
SOUNDMASTER		£99.99
STEREO MASTER		£29.99
SUPERJAM	NEW	£69.99
SUPERBASE PROF 4		£199.99
SUPERPLAN		£69.99
SYSTEM 3e		£59.99
TAKE 2	NOW ONLY	£39.99
TECHNOSOUND	NEW	£29.99
TOPFORM	NEW	£59.99
TRANSWRITE		£28.99
TURBOPRINT PRO	ONLY	£37.99
TV SHOW		£57.99
VIDEO EFFECTS 3D		£99.99
VIDEOSCAPE 3D		£59.99
VIDEO DIRECTOR		£109.99
WEATHER WATCHER		£16.99
WORLD ATLAS		£39.99
WORD PERFECT 4.1		£159.99
WORDWORTH 1.1		£89.99
3D CONSTRUCTION KIT		£39.99
3D PROFESSIONAL		£149.99

Educational titles are priced in blue

AT AMIGA SUPERMARKET

ALL PRICES INCLUDE VAT

AMIGA 600 £369.99 AMIGA 600HD £469.99

- 1 MEG RAM
- 3.5" DISK DRIVE
- WORKBENCH 2
- BUILT IN TV MODULATOR
- BUILT IN 20 MEG HARD DRIVE (ON AMIGA 600HD MODEL)
- CAPTAIN PLANET (not with HD model)
- DELUXE PAINT 3 (not with HD model)
- Compatible with most Amiga 500 peripherals - eg External drives, Samplers etc.

ACCESSORIES PACK £29.99

All Amiga 600s have 12 months on site warranty, with optional (at extra cost) extended warranty.

AMIGA 500 PLUS

- BUILT-IN DISK DRIVE
- 1 MEG RAM
- MOUSE
- TV MODULATOR
- WORKBENCH 2
- BUILT-IN CLOCK
- LEMMINGS
- THE SIMPSONS
- CAPTAIN PLANET
- DELUXE PAINT 3

LOW COST 3 & 5 YEAR EXTENDED WARRANTIES AVAILABLE. PLEASE SEE BELOW FOR DETAILS

LIMITED STOCKS

ONLY £339.99

2 MEG VERSION £379.99

- ANTISTATIC DUST COVER £4.99

AMIGA 500 1.3 ONLY £289.99

- BUILT-IN DISK DRIVE
- 512K RAM
- MOUSE
- TV MODULATOR
- WORKBENCH 1.3.

ACCESSORIES PACK £29.99

ADD JUST £15 FOR 1 MEG VERSION

- ANTISTATIC DUST COVER £4.99

AMIGA 1.3 WORKBENCH 2 OPTIONS

KEYBOARD SWITCHED (KS) ROM SWITCH	£27.99
WORKBENCH 2 ROM	£39.99
OFFICIAL WK BENCH 2 UPGRADE KIT	£79.99

PHILIPS CM 8833MK2

with F19 & On site warranty
OFFICIAL UK MODEL
NOW ONLY £219.99

- 14" SCREEN
- STEREO SOUND
- RGB & COMPOSITE INPUTS
- FREE CONNECTING LEADS
- DUST COVER £7.99

COMMODORE 1084S

LATEST MODEL
NOW ONLY £239.99

- 14" ANTIGLARE SCREEN
- GREEN SCREEN SWITCH
- STEREO SOUND
- RGB & COMPOSITE INPUTS
- FREE CONNECTING LEADS
- DUST COVER £7.99

AOC CM326 HIRES MULTISYNC MONITOR

NOW ONLY £29.99

- 14" ANTIGLARE SCREEN
- 0.28mm DOT PITCH
- ANALOGUE RGB INPUT
- FLICKER FIXER COMPATIBLE
- FREE CONNECTING LEAD
- DUST COVER £7.99

TV TUNER

use your 8833 or 1084 monitor as a tv.

ONLY £39.99

AMIGA 1500 Wkbench 2 £549.99

- 1 MEG RAM
- TWIN 3.5" DRIVES
- WORKBENCH 2
- ON SITE WARRANTY

Includes software pack comprising: Dpaint 3, Home Accounts, The Works, Ell, Toki, Puznic & 'Get the Most from Your Amiga'.

AMIGA 1500/200 ADDONS

8 MEG MEMORY CARD (unpop)	£79.99
1 meg *9 SIMMs 1,2,4, or 8 required	£29.99
SCSI CONTROLLER CARD	£89.99
GVP 52MEG HARD DRIVE	£279.99
GVP 120MEG HARD DRIVE	£419.99

COLOUR PRINTERS

CITIZEN SWIFT 9 £189.99

192cps draft, 48cps NLQ, 4 fonts. Friction & tractor feeds. Paper park. Low cost ribbons. 2yr warranty.

CITIZEN SWIFT 9X B/W wide carriage £319.99

Wide carriage version of Swift 9.

CITIZEN SWIFT 224D COLOUR £239.99

192cps draft, 64cps NLQ, a simplified version of the Swift 24, with similar print quality.

CITIZEN SWIFT 24E £289.99

The What Micro Best Buy budget 24 pin printer.

New 'E' model is even better - 216cps/ 72cps NLQ

CITIZEN SWIFT 24X wide carriage £414.99

All Citizen Swift printers come with a free print enhancement disk similar to TurboPrint which gives vastly improved print quality, especially with colour graphics. HURRY - LIMITED OFFER.

BLACK & WHITE PRINTERS

CITIZEN 120D+ now down in price £129.99

Good budget 9 pin, with tractor & friction feeds.

CITIZEN SWIFT 224D budget 24pin £224.99

CITIZEN SWIFT 24E B/W £264.99

CITIZEN PRODOT 9 - PROF QUALITY £199.99

CITIZEN PROJ INKJET PRINTER £399.99

Special introductory price - 300dpi Laser quality.

Fast & very quiet, A4 sheet feeder available.

RICOH LP1200 LASER PRINTER £799.99

6ppm, 300dpi (400dpi with extra ram) A4 paper.

SEIKOSHA SP1900 budget printer £124.99

Black ribbons for Citizen printers £4.99

Colour ribbon for Citizen 80column £15.99

120D/224D/SWIFT 9/24 DUST COVER £7.99

ALL PRINTERS SUPPLIED WITH FREE DRIVER DISK WHERE APPLICABLE / AVAILABLE.

Printer lead just £3.99 extra with all printers.

GOLDSTAR TV / MONITOR

- 14" SCREEN
- FULL REMOTE CONTROL
- SCART SOCKET (RGB input)
- FREE AMIGA LEAD

ONLY

£179.99

EXTERNAL DISK DRIVES

ROCLITE RF382C NOW £55.99

CUMANA CAX 354 3.5" DRIVE £58.99

All drives feature thru port & disable switch.

Using more than one external drive? - you need our External drive power unit - see opposite page for details.

MEMORY UPGRADES

AMIGA 500 PLUS upgrade TO 2 MEGS £39.99
Just plugs in. No soldering. Warranty unaffected. Gives you 2 megs in total.

A500 / 500+ / 1/2meg without clock £23.99

A500 / 500+ / 1/2meg upgrade with clock £27.99

NOW IN STOCK ...

AMIGA 600 UPGRADES

AMIGA 600 1meg + clock (unpopulated) £29.99

AMIGA 600 1meg + clock complete £59.99

NOT ENOUGH FAST MEM? You need a...

BASEBOARD PLUS unpopulated £79.99

BASEBOARD PLUS with 1MEG £99.99

BASEBOARD PLUS with 2MEG £139.99

BASEBOARD PLUS with 4 MEG(max) £199.99

Uses low cost 256*4 D rams. Upgradable from 1/2 to 4 megs. Internal fitting - invalidates warranty unless fitted by us. Fitting charge £10.00 plus postage. Also available for Amiga 500 1.3. Please state machine when ordering.

ZYDEC 1.5MEG A500 UPGRADE fully populated £75.99

AMIGA 1500/2000 8 MEG RAM CARD (unpop) £79.99

HARD DRIVES

GVP SERIES II HD8 FOR A500 - NO DRIVE £169.99

GVP SERIES II HD8+ 52 Meg Quantum drive for A500 & A500+ now only £359.99

GVP SERIES II HD8+ 60 Meg Connor drive for A500 & A500+ now only £369.99

GVP SERIES II HD8+ 120meg Quantum drive for A500 & A500+ now only £479.99

GVP SERIES II HC8 HARD CARD - NO DRIVE £139.99

GVP SERIES II HC8 + 52meg Quantum drive for Amiga 1500 & 2000 now only £279.99

GVP SERIES II HC8 + 120meg Quantum drive for Amiga 1500 & 2000 now only £419.99

1MEG SIMMS FOR GVP (4meg max) each £29.99

GVP A530 68030 (40MHz) + 52M HARD DRIVE, 1 MEG RAM

EXPANDABLE TO 8 MEGS. A3000 PERFORMANCE £729.99

QUANTUM 52MEG SCSI DRIVE - SPECIAL OFFER £169.99

A590 52 MEG SCSI UPGRADE KIT inc cable £174.99

A590 45MEG NEC SCSI UPGRADE KIT £189.99

A590 105MEG NEC SCSI UPGRADE KIT £299.99

A590 MEMORY UPGRADES - 1MEG - £30. 2MEG - £60.00

AMIGA PRINTER PORT EXPANDER

Fed up unplugging your printer every time you want to use a sampler or Digitiser? You need one of our PRINTER PORT EXPANDERS. These include free 2m cable worth £10.99 to connect them to Amiga. They are fitted with sockets identical to the Amiga's printer port - so your printer cables & other peripherals just plug straight in. All lines are fully switched. Can be operated with the Amiga switched on.

2WAY - £24.99. 3WAY - £27.99. 4WAY - £33.99

PRINTER ACCESSORIES & LEADS

UNIVERSAL PRINTER STAND - open frame type with paper holder for all 80 column printers. £12.99

TWO PIECE PRINTER STAND for any printer £7.99

COPY HOLD - FREE STANDING OR CLAMP £16.99

RIBBON REINKING SPRAY - SAVES ££££ £11.99

AMP1 1.8m longlead for parallel printers £9.99

AMP 2 3m longlead for all parallel printers £12.99

AMP 3 5m long lead for all parallel printers £16.99

PRINTER PORT EXTENSION LEAD (M-F) £10.99

PRINTER PORT TO SWITCH LEAD (M-M) £10.99

PRINTER LABELS 98x36mm approx. /1000 £5.99

MONITOR LEADS & ACCESSORIES

AL1 for most Scart tvs except some Goldstar & vcrs £13.99

AL6 for Amstrad CPC monitor - with no sound £11.99

AL6B for vcr CPC monitor with stereo sound £12.99

AL7 for 1084 monitor inc audiolead (6pin Din plug) £14.99

AL7P for new 8833/1084 - 9 pin D plug £14.99

MODULATOR EXTENSION LEAD - £10.99

MODULATOR SPLITTER - 2 way RGB adaptor £16.99.

MONITOR PLINTH WITHOUT SHELF £23.99

MONITOR PLINTH WITH SHELF £33.99

DELUXE MONITOR WORK CENTRE includes overall dust cover, mouse mat & holder, joystick/mouse extension £49.99

14" MONITOR TILT/SWIVEL BASE £12.99

SCART SWITCH £19.99

This compact switch box effectively gives your tv or monitor two scart sockets. It enables ANY two scart leads eg Amiga & vcr, to be connected to one scart socket on a Tv. Just push a button to switch from one to the other.

Our Extended Warranty & Insurance plans could save you ££s on accident & repair bills Available for most hardware items.

TRILOGIC are a long established family firm offering a friendly personal service to all our customers - in person or by mailorder. Our expertise, & caring professional approach is second to none - we're worth knowing.

© TRILOGIC 1992. E&OE Prices charged are those current on the day you order - occasionally, some may have change either way since this advertisement was completed (10/7/92)
ORDERS FROM PLCs, LOCAL GOVERNMENT & EDUCATIONAL ESTABLISHMENTS WELCOME.

SALES 0274- 691115



When we asked **Paul Tyrrell** to look at the Action Replay Mk III, he liked it so much that he didn't want to give it back. But why should an Amiga user find this peripheral so essential? Now that's one question only he can answer...

Datel's Action Replay III simply plugs in on the edge connector of an A500. It then taps into the operating system, allowing you to do all sorts of clever things...

Action Replay III

Utility cartridge ■ £59.99 ■ Datel

AMIGA FORMAT

152

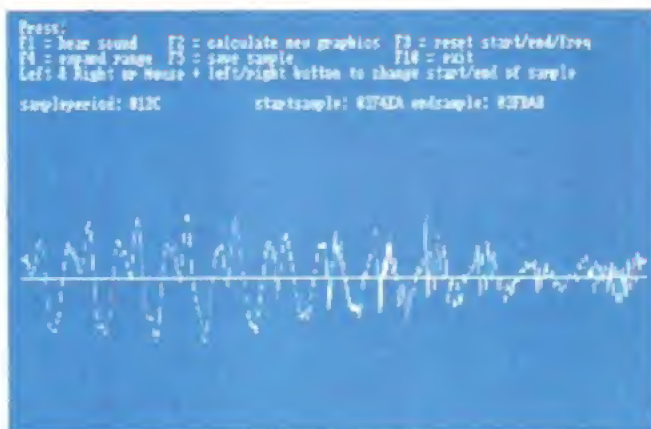
SEPTEMBER 1992

THOSE OF YOU who have been reading *Amiga Format* since the day it began may remember, way back in issue nine, the release by Datel Electronics of a 'freezer cartridge' called Action Replay. Now in its third form, the Replay Cartridge has undoubtedly become one of the most useful and well-loved peripherals available for the Amiga. But just why is it so incredibly good?

First of all let me explain what a freezer or 'snapshot' cartridge actually does. Primarily, it allows the user to 'freeze' software while it is running and then look at, search through and manipulate the code which goes up to make the program in memory.

IFF files can be extracted from memory and saved onto other disks (both pictures and samples), sprites can be altered and viruses can be removed. A functional CLI becomes available to the user once the 'Freeze' button has been pressed. Clearly the cartridge cannot be specifically categorised because it has so many different applications, although the first Action Replays (produced for the C64), were meant to be more of an aid to games players.

The Action Replay Mk III offers all the facilities Amiga users adored from earlier models (for example, the slow motion switch



Once you've frozen a program that is running you can then examine and even save out the pictures or, as is going on here, the sound samples.

which decelerates the computer's operations is still attached), and a whole lot more. Makers Datel maintain an excellent standard of hardware construction.

Upon 'freezing' a program with the Replay III, you are presented with a pseudo-CLI called the 'mempecker'.

This recognises nearly all AmigaDOS commands in addition to the system's own

Action Replay is available from Datel Electronics, Govan Road, Fenton, Stoke-on-Trent ST4 2RS. Tel: 0782 744707



By tapping the button and typing in the right commands, you can look at the screen display as it is stored in memory. If you like the look of it, you can save it as an IFF picture.



Some software, however, does clever things to the screen display between it leaving the Amiga's memory and arriving on your screen. These lose quality when grabbed from memory.

exclusive options. Despite requiring (for the most part) single word commands to operate each facility, it works at a cracking pace once you know what you're doing. Option screens accessible by the touch of a button from this system also control the allocation of memory, the drive from which everything boots, a virus-killer and autofire modifier - plus many other preferences which take effect next time the machine resets.

Facilities likely to be of interest to the average user are going to be the sample/IFF ripping commands and trainer options. However, that CLI is probably the most powerful tool to have available at the touch of a button because it enables DOS access without interrupting programs in memory.

Professional and aspiring coders should also check out the memory and code search facilities, since these are ideal for debugging their own programs and picking up tips from others. There is a simple M68000 assembler within the cartridge which is an incredible asset for those who have the know-how to unlock its potential.

Once you've owned an Action Replay cartridge, you just can't live without one. It has so many different applications that there is something within its ROM for everyone, and I have, of course, only had enough space to describe what is the really just the tip of an iceberg. I could also have mentioned the deep training facility, in-built burst-nibbler, switchable PAL/NTSC screen mode, crunch/decrunch memory save, etc. etc. For the moment, I would hazard a guess that there is no better freezer cartridge available, but maybe there will be a Replay IV out before long.

Action Replay III

SPEED ●●●●

Manipulation of the Replay's features is easy with its one word command system.

DOCUMENTATION ●●●

Relatively easy to understand but with too little detail in places. A tutorial disk might be an idea.

ACCESSIBILITY ●●●●●

Just slide the Replay across your desk and it grips on to that edge connector like a limpet. The 'freeze' button isn't hard to find.

FEATURES ●●●●●

How do they fit all of those features into that little box?

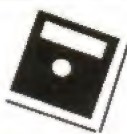
VALUE ●●●●●

You get a lot for your money. Well recommended.



DISKS

from 31p



PREMIUM BULK DISKS 3.5" DS/DD

25	50	100	250	500	1000
10.99	20.50	36.99	84.99	164.99	317.99

OUR DISKS ARE FULLY GUARANTEED AND ARE COMPLETE WITH LABELS

3.5" SUPERIOR LOCKABLE DISK BOXES

100 Capacity	4.49
120 Capacity	6.49

3.5" PREMIUM DISKS WITH OUR BOXES

100 cap. box + 50 3.5" DS/DD	24.49
120 cap. box + 100 3.5" DS/DD	42.99

3.5" BANX BOX - 80 CAPACITY

A superb product which is both lockable and stackable

ONLY £9.95

With 50 Premium Disks £29.49



**SNAP
COMPUTER
SUPPLIES LTD**



HOTLINE

0703 457111

Fax: 0703 457222

RIBBONS - POST FREE

Full Mark Brand	2 off	4 off
	PRICE EACH	
Citizen 120D/124D Swift 24	2.50	2.30
Citizen Swift 24 Colour (original)	15.00	
Panasonic KXP 1080/1123/1124	2.90	2.70
Star LC10 /LC20	2.80	2.60
Star LC10-4 Colour	5.90	5.70
Star LC24-10	2.80	2.60
Star LC24-10 Colour Original	12.50	
Star LC200	3.20	3.00
Star LC200 Colour Original	11.50	
Star LC24-200	2.80	2.60
Star LC24-200 Colour Original	12.50	
Ribbon re-ink	12.95	

ACCESSORIES - POST FREE

Mouse Mat	2.99
Mouse Holder	2.99
2 Piece Universal Printer Stand	6.99
3.5 Disk Clean Kit	2.99
Roll 1000 3.5 Disk Labels	8.99
Printer cable (1.5 metre)	3.99
Amiga A500 dust cover	3.50
Philips monitor cover	3.99
Star LC10, Star LC20 covers	
Star LC24-10, Star LC24-200 covers	3.99

SNAP COMPUTER SUPPLIES Ltd.

Unit 16, The Sidings, Hound Rd, Netley Abbey, Southampton. SO3 5QA

All products are subject to availability - All prices include VAT.

Please add £2.99 P&P for disks & boxes, £3.99 for paper. E&OE.



AMIGA REPAIRS
JUST £44.95 inc.



- ★ Commodore registered
- ★ Over 10 years experience with Commodore computers
- ★ 20 qualified technician engineers at your disposal
- ★ We will undertake to repair your Amiga 500 computer for just £44.95 including parts, labour, VAT and post & packing
- ★ Most computers should be repaired within 24 hours of booking in.
- ★ Prices include full service check, overhaul, soak-test and replacement of power supply unit if necessary
- ★ Repairs to keyboard and disk drive also included (£25 extra if these units are unrepairable and require complete replacements)
- ★ All repairs covered by a 90 day warranty



Upgrade your Amiga from 512K to 1Mb of memory for just £25.00

SPECIAL EXCLUSIVE OFFER:

If you submit your computer to ourselves for repair, enclosing this advert along with just an additional £25, we will supply and fit a 512K memory expansion at no extra cost.

How to take advantage of this exceptional offer: simply send or hand deliver your machine to the workshop address detailed right, enclosing payment and this advert and we will do the rest. (If possible please include a daytime telephone number and fault description).

* If you require 24 hour courier to your door, please add £5 else your computer will be sent back by contract parcel post.

WTS ELECTRONICS LTD

STUDIO MASTER HOUSE

CHAUL END LANE

LUTON, BEDS, LU4 8EZ

Telephone (0582) 491949 - (4 lines)

WTS reserve the right to refuse machines that in our opinion are tampered with, to an extent beyond reasonable repair - normal charge applies.



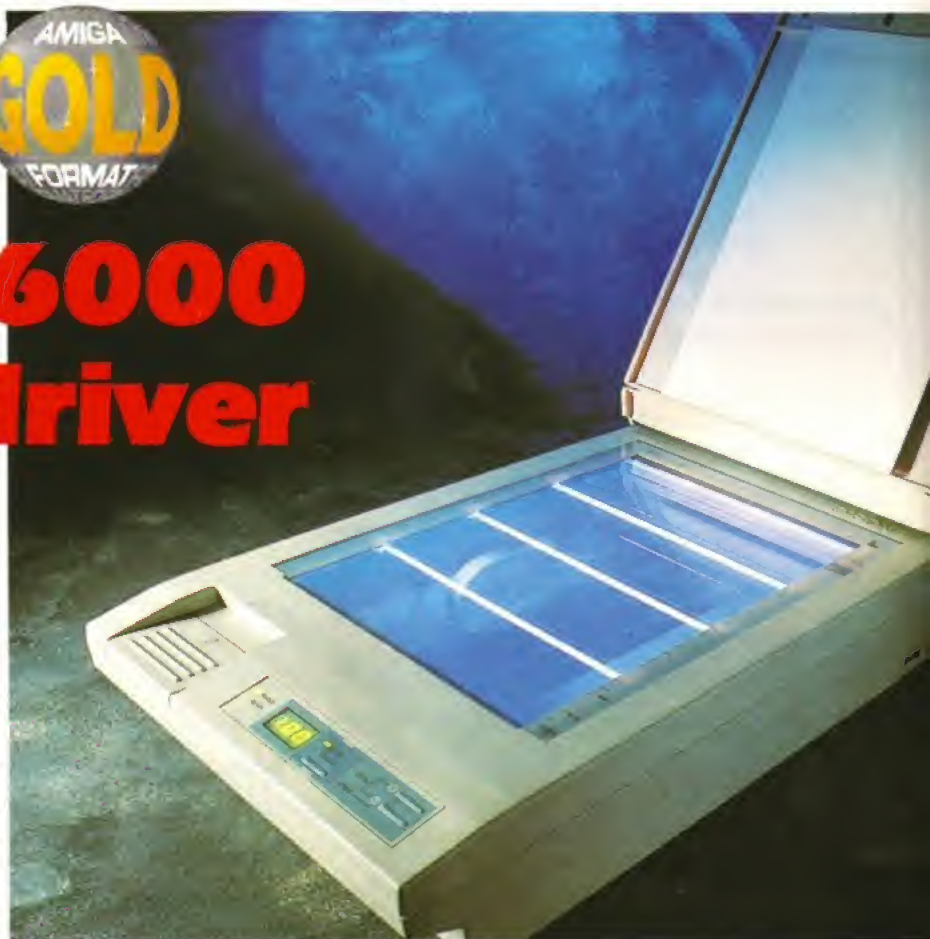
Amiga-compatible flatbed scanners are not common, but to the DTP user, or Amiga artist they are a boon. **Marcus Dyson** checks out a new package from Epson and ASDG.



Epson GT-6000 and AdPro driver

Flatbed Scanner and Software

£1175 ■ Epson/ASDG



No-one will ever accuse the Epson GT-6000 of being the prettiest piece of Amiga hardware. Its design is functional rather than attractive. It is, however, outrageously good. Anyone considering buying a scanner should give it a look.

GETTING HIGH-QUALITY colour images into the Amiga is not as easy as one might hope. Sure you can use a digitiser, but even the best digitiser is restrained by the limits of quality you get from a video signal. For high-quality DTP a better image is required, and colour scanners become a necessity. The fact is that there are simply not enough colour scanners accessible to the Amiga user. The problem lies not with the hardware, because much like printers, most computers could theoretically control most scanners. But the driver software has to exist.

Until now the only colour scanners under Amiga control were the excellent, but pricey Sharp JX-100/300/450/600 series. But ASDG, authors of the software that drove those scanners, have released a driver for the cheaper Epson GT-6000 A4 flatbed scanner.

The software comes packaged in what is immediately recognisable as *Art Department Pro* clothing, and it is indeed a plug in for that

program. If you don't have *AdPro*, however, don't fret – because a stand-alone version is included too. Remember, though, great images are not created with a scanner alone. Image processing software is a necessity once you start doing your own colour scanning. Since *AdPro 2* scored 8% in *Amiga Format 36*, it would make the perfect ancillary purchase to this scanner/driver package.

Getting started is about as simple as it could be: just plug the GT-6000 into the parallel port of your Amiga using the supplied lead. Put the disk into your drive, double-click on the install icon and a friendly arrangement of prompts takes you through the process of mounting the software to your hard drive. A hard drive is absolutely vital when you've just spent a grand on getting true colour images on to your

EPSON GT-6000 and ADPRO DRIVER is available from HB Marketing 0753 680000

AMIGA FORMAT

154

SEPTEMBER 1992

Ever wanted ready-made 24-bit textures at an affordable price? **Brian Larkman** finds two packages that can be used for creating real-life images in his virtual world.

Real Textures

Texture City series

24-bit Textures ■ Price varies ■ Active
100 images on CD-ROM for £140
60-image 'professional' set £280
40 DCTV or HAM-E images £100
Two 15-image sets for £100 each

Available from: **Alternative Image 0533 440041**



A dummy video title screen, produced using textures from the *Alternative 3D Textures* disks, can be compared...

Take a close look at even the slickest man-made objects and you will see the real world is none too smooth. So computer artists need some sort of texture mapping to add real-life imperfection to the perfect, virtual world of computer graphics.

The trouble is, decent texture maps are difficult to acquire. If you have a digitiser you can grab almost any texture, but probably only in blurry low resolution, with uneven lighting. For best results you need 24-bit, high-resolution scans, and not many of us have the resources to produce these.

To the rescue come two sets of 24-bit scanned textures, *Texture City* and *Alternative 3D Textures*. Both are just libraries of scans on disk, but they have chosen slightly different ways of storing the



...with a similar screen produced using textures from the *Texture City* disks. There's no obvious difference.

textures. *Alternative 3D Textures* has one texture on each of ten disks, each texture being supplied in four different formats – interlaced HAM, eight-colour hi-res (for video titling), hi-res grey scale (for bump mapping), and 400 x 400 24-bit. *Texture City* has gone for larger, 24-bit images but has them JPEG-compressed, which means they have to include a decompressor and viewer program.

Using JPEG means that *Texture City* can fit four 640 x 512 24-bit images on each disk, but each one needs unpacking before it can be used. The decompressor *should* do this but won't, so *Art Department Pro* can be used instead. Supplying only 24-bit files means that other formats have to be produced in an image-processing program – *ADPro* or *ImageMaster*.



The scanner software is a simple-to-control push-button affair, as you would expect from an Art Department Pro plug in. The stand-alone version looks identical.



LEFT: The image seen on the preview screen above, after it has been scanned.

BELOW: Another test image. The quality speaks for itself, but remember this was output on a printer costing £35,000.

clicking the accept button starts a preview scan – the image being shown on screen as it is scanned. This operation is very quick, and the mono preview image of an excellent quality.

Now's the time to fine tune your crop, and check on the resolution. A running readout of file size is given for 24-bit, 8-bit and 1-bit images, and if the required size exceeds available memory, the file size changes colour to show it is unavailable. One advantage of the stand-alone software is that it scans the image straight to disk, eliminating the need for vast amounts of RAM. A 24-bit A4 image at 200dpi, would be almost 16Mb in size.

Accepting these parameters takes you to the fine scan screen.

The fine scan screen bears an incredible similarity to the preview scan screen, but the parameters on offer are a little different. The settings to be made before your final scan are

the scan mode (full colour, grey scale or mono) Brightness, Gamma (a kind of contrast setting) and colour correction. All these options are described at length in the scanner's handbook, and are controlled in an easy-to-use push-button manner. Once the final settings are made, it's time to go.

Pressing the accept button will start your true scan. If you're working in *AdPro* mode you will be limited by the amount of available RAM, and the image will be loaded from the scanner, just as a picture is normally loaded from a disk.

The scan speed is very quick for a scanner of this type and the high quality of the images obtained is shown on these pages.

If you need an A4 flatbed scanner, then this is the one. The image quality matches that of other scanners, but its ease of use, speed and, most notably, price are without match in the Amiga market.



machine, a floppy would only accommodate a 5 x 5cm scan at 200 dots per inch.

Using either the *AdPro* loader or the stand alone software brings you to the same 'preview screen'. From here you can set the dimension and position of your scan area, adjust the resolution (all the way up to the limit of 600 dpi), or adjust the scan brightness. Once you have entered these parameters,

Epson GT-6000

SPEED	● ● ● ● ●
Even faster than the Sharp JX-300 scanner we use here in the <i>Amiga Format</i> offices.	
DOCUMENTATION	● ● ● ● ●
Comprehensive, thorough and simple-to-understand. Excellent.	
ACCESSIBILITY	● ● ● ● ●
A beginner to the area of colour scanning could produce a quality image within an hour.	
FEATURES	● ● ● ● ●
A little more colour correction control would be nice, but we're really nit-picking here.	
VALUE	● ● ● ● ●
The nearest competition costs around a quarter as much again. The word is bargain.	

98%



To illustrate some of the textures available they have been wrapped on to this standard *Imagine* model.

The *Alternative 3D Texture* set consists of 10 disks plus two bonus disks. This is extravagant but the extra formats all sitting there waiting for you make it more convenient.

The 24-bit image size of 400 x 400 is smaller than *Texture City's*, but these textures are more intended for use in 3D programs and this is about the largest size of 24-bit wrap that *Real 3D* or *Imagine* can cope with easily. If you want to use the texture as a backdrop for tiling you need to tile it or enlarge it to full screen size.

The bonus disks (sent to anyone who registers their purchase) contain several *Real3D* scenes that are an invaluable tutorial for anyone just starting with wraps. Included are the scenes and wraps for a

complete 3D 'earth', a reflective chrome effect, and the bump maps for the famous 'Real Pinball Demo'. As well as the actual scenes there are diagrams showing how to set the 'seam' on each object and how to set up an 'environment' map.

Strangely, considering the almost infinite range of textures offered by our rough old world, both companies have gone for a similar range – clouds, marble, woodgrain, etc. If their market research is correct, we all want the same surfaces in our imagined worlds as in our real ones. But where are the more real and more unusual textures, like peeling paint or tarmac? It would have been nice to see some more mundane textures.

Overall *Texture City* offers a wider range but it is more expensive. *Alternative 3D Textures* offers 12 of marble, stone, wood, bark, grass and sky that are more affordable and best suited to 3D use, and the range will grow in the future.

Alternative 3D Textures
24-bit Textures ■ £40 ■ Alternative Image
Available from: Alternative Image 0533 440041

75%

Reverser
Renumbering Utility ■ £10
Alternative Image
From: Alternative Image 0533 440041

If you've ever tried to load a sequence of images produced in *Deluxe Paint* into another program, you are likely to have come against the problem of sequence numbering. *Deluxe Paint* numbers sequences of files by adding .001, .002, and so on to the file name. Unfortunately *Imagine*, for example, expects the files to be numbered with .0001, .0002 etc. Renaming a couple of hundred files with just one extra 0 can take ages.

Reverser takes the sweat out by renumbering files automatically. It can renumber using the required format for any of the 12 main 2D and 3D animating programs, converting any of these to any other. It can reverse sequences, delete, move and – very important this if you have deleted part of a sequence – offset number sequences. Simple and invaluable.

75%

High quality products. Full technical support.

High quality products. Full technical support.

Visit our Showrooms. See before you buy.

<p>NEW Amiga Workstation /Expansion System Monitor stand with shelf for drives etc. Strong metal construction made from 14SWG steel epoxy coated Amiga colour. Special price £27.50</p>	<p>Midi Interface 4 channel Midi interface for Amiga £29 Dr. T's Midi Music Software (not suitable for A500+) £9.95</p>	<p>Hard Disks Supra 500XP 52M for A500 £299</p>	<p>Floppy Drives Cumana CAX354 The most reliable drive you can buy 1M external £49 While stocks last</p>
<p>New Price Citizen 224 24pin Colour * Enhanced 24pin printer. *optional colour with easy to use control panel 2 year warranty. Price with cable & paper Mono £209 Colour £219 Amiga printer driver £5.00</p>	<p>New Price HP Deskjet Colour 300dpi colour inkjet printer. Colour laser quality at 1/10 of the cost. 3 year warranty. Price with cable & paper £519</p>	<p>Commodore A590 20M Hard Disk for A500 £249</p>	<p>Commodore A1011 1M external £49 While stocks last</p>
<p>All Citizen printers have 2 year warranty</p>	<p>Deskjet 500 HP 300dpi Inkjet printer. Laser quality at dot matrix price. 3 year warranty. With cable & paper £359</p>	<p>GVP Series 2 for A500 52Mb Hard Disc £345 120Mb Hard Disc £449 52Mb A530 Combo £699 120Mb A530 Combo £849</p>	<p>Roctec RocLite RF382C 1M external £56</p>
<p>Swift 24E Enhanced 24pin. Colour printer with cable & paper Mono £259 Colour £269</p>	<p>Printer Drivers Citizen Colour 24pin 5.00 Canon BJ-10e 4.95 Deskjet 500 Colour 9.95</p>	<p>for A1500 52Mb Hard Disc £279 120Mb Hard Disc £419 GVP ram £25 per 1Mb</p>	<p>Ram Upgrades A500 1MrAm + clock £21.90 A500 1MrAm no clock £17.90 A500+ 1MrAm + clock £39.90 A600 1MrAm + clock £49.90</p>
<p>Citizen Swift 9 with cable & paper Mono £169 Colour £179</p>	<p>Printer Dust Covers most types in stock from £4.70 inc VAT</p>	<p>A2286 Bridgeboard CBM 286 Bridgeboard for A1500 £319</p>	<p>Amiga 1500 with full software pack £499</p>
<p>Citizen 120D + with cable & paper £119</p>	<p>Canon BJ-10ex 360dpi Inkjet printer with cable & paper £215</p>	<p>Commodore 1085SDI 14" Colour Monitor with cable dot pitch 0.51mm Standard Res. £199</p>	<p>Amiga 600HD 20Mb internal Hard disk & software £439</p>
<p>Panasonic KXP1123 Probably the best 24pin mono printer available. With cable & paper £179</p>	<p>Star SJ-48 360dpi Inkjet printer with cable & paper £209</p>	<p>Commodore 1084SD 14" Colour Monitor with cable dot pitch 0.42mm. Medium Res. £209 While stocks last</p>	<p>Amiga 600 Standard A600 with full software £339</p>
<p>Panasonic/Epson KXP1170 9pin 134 KXP1124i 24pin 227 KXP2180 9pin Colour 189 KXP2123 24pin Colour... 269 Epson LQ570 24pin 265 Epson EPL-4100 Laser.. 680 Epson EPL-8100 Laser.. 1115 Prices include VAT cable & paper</p>	<p>Star LC200 with cable & paper New Price £179</p>	<p>Philips CM8833 MK2 Colour monitor with cable £199 Colour monitor with no cable £189 UK. 240V mains + F19 game</p>	<p>SONY DISKETTES SONY branded (lifetime warranty) (100% certified error free) 10x 3.5" DS/DD 135tpi 7.50 50x 3.5" DS/DD 135tpi 32.30 100x3.5" DS/DD 135tpi 59.93 250x3.5" DS/DD 135tpi 141.00 1kx 3.5" DS/DD 135tpi 540.50</p>
<p>Naksha Mouse for Atari ST & Amiga with house & mat £21.50</p>	<p>Star LC20 Mono 9pin 129 LC200 Colour 9pin 179 LC2420 Mono 24pin 189 LC2420 Mono 24pin 209 LC24200 Colour 24pin .. 259 Prices include VAT cable & paper</p>	<p>Accessories Joystick/Mouse twin extension 4.70 3M Joystick/Mouse lead 3.75 A500 Printer cable 7.95 Modulator/Disk Extension 10.95 23way Plug or socket 2.95 A500 Dust Cover 4.70 Mouse Mat (thick soft type) .. 4.95 Mouse House 2.95 1M internal 3.5" drive 49.00 A500 replacement PSU 39.00 A590 replacement PSU 49.00 Rocgen Plus - Genlock + ... 129.00</p>	<p>DISKETTES SONY / DYSAN bulk (lifetime warranty) (100% certified error free) 10x 3.5" DS/DD 135tpi 5.95 50x 3.5" DS/DD 135tpi 21.86 100x3.5" DS/DD 135tpi 39.60 250x3.5" DS/DD 135tpi 94.88 1kx 3.5" DS/DD 135tpi 353.68 40 x 3.5" Disk box with lock 5.49 100 x 3.5" Disk box with lock .. 7.50 Carriage on 50+ disks £3.53</p>
<p>Squik Mouse for Atari ST & Amiga £13.90</p>	<p>Kickstart Upgrades Commodore 2.04 full upgrade 79.00 Kickstart ROM only v2.04 41.50 Kickstart ROM only v1.3 29.00 Keyb'd operated sharer 24.95 VXL30 25MHz Accelerator ..239.00 Fatter Angus custom chip 37.50</p>	<p>Commodore 1084SD 14" Colour Monitor with cable dot pitch 0.42mm. Medium Res. £209 While stocks last</p>	<p>Amiga 600 Standard A600 with full software £339</p>
<p>Phone for our 60 page catalogue EDUCATIONAL AND GOVERNMENT ORDERS WELCOME All products have a 30 day money back & 12 month warranty. Prices are subject to variation without prior notification. Established 7 years. 3 minutes from M27 Junction 11. Free parking. Open 9 to 5.30 Monday to Friday & 9 to 5 Saturday Postage 94p or £3.53 Securicor £6.46 (£5.50 + VAT)</p> <p>WeServe Larger items delivered by Securicor</p> <p>Amiga/Format Dept. 40-42 West Street Portchester Hants PO16 9UW Tel: 0705 325354</p>			

Hooray! It's that time of year again when rodents everywhere compete for the ultimate title of Meece World! Introducing **Andy Nuttall**, your host for the evening.

Ravishing Rodents

Say "Cheese"! The final fourteen take the stage.

IF YOU'VE JUST bought an Amiga, you may be reading this and thinking to yourself "Why on Earth would I want to buy a new mouse?". Well, in our experience (and I'm sure most regular users will recognise this) the mouse supplied with the computer is not very good. Not only is it generally unreliable, ie the ball has a tendency to slip *just* when you're about to massacre the enemy in your favourite shoot-em-up simulation, but also the buttons are extremely unresponsive and have a tendency to break very quickly.

Because of this problem many manufacturers have gone out of their way to design new controllers which are more responsive and last

much longer. Some, though, have thought it best to ignore all the problems of the Commodore mouse and come up with something which is inferior even to that!

In addition to mice, we have also looked at several trackballs which are commonly available. A trackball is basically an upside-down mouse with a larger ball, which is operated directly by hand. It became popular years ago as an alternative method of control to the old-fashioned joysticks and keyboards, although in the past few years it has been overshadowed by its whiskered counterpart. It has a distinct advantage over the mouse in that the unit remains stationary at all times, and so it eats

up far less desk space. Even so, the mouse has become more and more popular as people discover its relative ease of use.

We tried and tested fourteen of the most widely available methods of controlling that cursor-type-thing so that you will have some idea of which one to buy when your trusty Commodore cheese-eater finally croaks (or squeaks, as the case may be).

As well as the mice and trackballs we have also looked at two extremely useful devices which allow you to plug your mouse and a joystick into a single port on your Amiga, so you should never have to unplug that mouse again! Right, to the batcave. Robin...

SWITCHEROONEY

How many times have you had to go rooting around the back of your Amiga to try and swap the plug of your mouse with a joystick? Hundreds? Thousands? Let's face it, it's a pain in the neck. Well, we may have just the thing you're looking for.

These neat little devices allow you to plug both a mouse and a joystick into the right hand port of the Amiga simultaneously, and switch between them at will.

The two gadgets available are very similar both in looks and operation. Each has two 'D'-type (joystick) sockets on the side, and a short cable leading to the computer. LEDs are positioned near each socket to tell you which controller device is operative at any one time.

Switching between the the mouse and the joystick is easy - all you have to do is click a button on one of them and control is automatically changed over to that one. This is an excellent system which thankfully overcomes the problem of having to manually switch between the two.

The first of the two devices available is the Autoswitch from Alfa Data. This is a fairly robust item, made from a similarly coloured plastic to the Amiga itself, which works very effectively when using the joystick for most games and the mouse for Workbench. There is, however, one major draw-



The Autoswitch from Alfa Data swaps between mouse and joystick as soon as you press a button on either.

back. The initial press of a button on either input device not only transfers control to that device, but also registers the click with the computer (which can have disastrous results in some games and art packages). This is a slight oversight on the part of the designers, one which could prove to be extremely annoying in practice.

Enter the Roboshift autoswitch from Meedmore. The designers in this case have considered the problem of this initial button clicking, and solved it using a very simple method.

The device has built-in circuitry which masks the first click of either controller from the com-



The Roboshift from Meedmore does exactly the same job, but an important difference is it hides the first click.

puter, and so no matter which software package you are using the selection procedure will not interrupt the current program in any way. Full marks to Meedmore for this, then.

The device does not seem as sturdy as the Alfa Data model, but this should not cause any undue problems unless you happen to be dancing on your desk and accidentally stamp on it. Amazingly it's also cheaper, retailing at £15.95 against the Alfa Data's £17.95 price tag.

The verdict, then, has to be with the Roboshift. It works extremely well and costs two quid less than its competitor. What more can you ask for!



Mouse

Operation

Quality

Verdict

Contriver Mouse



The 290 dpi resolution of the Contriver mouse makes it very responsive for simulation type games, and it also works well in art packages even when working in a high resolution screen mode.

The feel of the device is not unpleasant. It's reasonably heavy compared to some mice, which gives the impression that it's an expensive model, but not so heavy that it's difficult to move around rapidly for games purposes.

This mouse comes with its own neat little holder which may be fixed to the side of your monitor (or anywhere else you may fancy) but you'll have to supply your own mouse mat to skate it around on.

The unit itself looks fairly plain, made from white plastic with a 6ft cable. It's all very good and wholesome, except for the specification on the box which claims it to be "self-cleaning", but nobody here could find anything inside which could back up this statement. Don't let this put you off - it's a good 'un.

At £15 this mouse is good value. It looks unremarkable, but then it's not what it looks like it's what it feels like that counts, and it feels pretty good.

Its two buttons are microswitched, the action is responsive, and on the whole the unit seems to be fairly robust so it should give you years of trouble-free mousing.

Verdict **72%**

Jin Mouse



If you were to imagine what your most ideal mouse style would be, such as one which fits ergonomically into your hand, or one which glides gracefully about the mat, then the chances are you wouldn't come up with this turkey.

The buttons are slightly too far forward for comfortable use, the movement is unresponsive, and the case is made from a material which quickly becomes very sticky and clings to your palm.

This is a no-gimmicks type mouse, with minimalist packaging and no mouse holder or mat included in the price. This extends further to the unit itself which is made from bright white plastic with no markings whatsoever, not even a manufacturer's logo!

Although the case of the mouse is reasonably strong, the buttons do seem flimsy - as though one strong press could snap the plastic. However, they activate microswitches so if you have a light touch you should be all right.

Although this is the cheapest mouse you're likely to find anywhere, I'm afraid I still can't recommend it. It's unpleasant and uncomfortable to use, and nothing special to look at. Under a tenner, yes, but there are far better mice available for just a little more dosh (see Golden Image and Contriver). Still, it's got a 6ft long cord, so you could always hang yourself.

Verdict **30%**

Golden Image Mouse



Without beating around the proverbial, this Golden Image mouse is an absolute gem.

With a resolution of 290 dpi, it handles as well, if not better, than any other mouse I've used - even some at more than twice the price!

It is superb in all aspects of operation. The buttons and the ball are extremely responsive, working well for simulations and all types of detailed applications such as art packages and DTP.

The shape of this mouse is just about perfect - similar to some others but with subtle differences which make it a joy to use.

This is not all! The unit looks very good, is made from a strong material, and has microswitched buttons which should last a good long time.

The package also contains a mouse mat which doubles as a useful cutting pad. It used to be supplied with a mouse holder, but unfortunately this has been dropped to keep the price down.

Some of you may be thinking that one mouse is very similar to another, but how wrong you are. This model stands out from the crowd in terms of quality of build, looks and responsiveness.

Very, very, very good value for money. It's impossible to choose between this and the Mega Mouse for an overall winner, so you must decide yourself.

Verdict **90%**

Logitech Kidz Mouse



The Kidz mouse from Logitech is, as its name suggests, aimed at the younger Amiga users.

Well, what do children want from a computer? Educational software, basic art packages and games? This mouse works very well in all of these applications.

Anybody requiring a mouse for a type of application requiring high detail should steer clear, though, as it's not too accurate.

This has been specifically designed for the smallest hands, so all you adult-types may have difficulty grasping it comfortably.

It's got a great cutesy look about it that will appeal to young and old alike, and it is reasonably well built and pleasant to use. However this does not warrant its high price tag, and I would challenge anyone (including Logitech) to argue otherwise.

This is another example of a relatively basic product aimed at children sold at an inflated price.

Kids! If your Mum has a phobia about small rodents, then this is the one to buy! Don't leave it lying around on the floor, though - even though it's robust, I don't think it could stand the weight of a parent jumping up and down on its head!

No, seriously, it's a competent mouse, very suitable for young children, but supplied sans holder or mat and vastly overpriced.

Verdict **77%**

Genius Happy Mouse



Well styled and comfortable to hold, the Happy Mouse is, like the Golden Image, a good example of what marketing people and designers can do if they put their minds to it.

As well as being very responsive both button-wise and movement-wise (it has a very high resolution of 350 d.p.i.), it's pretty good for a sound arcade-bashing, and not bad for any detailed arty-type applications such as DPaint IV or Spectracolor.

This unit is made from a sturdy plastic with a style which is both pleasing to the eye and comfortable to hold. The buttons are moulded with subtle ridges which make quite a difference to the overall feel of the unit, and they are very responsive, as is the movement of the mouse itself. The complete unit has a quality which belies its price.

Like the Golden Image, the Genius comes with a rubber mouse mat which doubles as a cutting mat on the flat underside, which is an unusual but valuable addition.

At around £15 including a mouse mat, the Genius Happy Mouse gives the Golden Image and Mega Mouse models a run for their money, but doesn't quite make the grade in my opinion.

It has excellent features more commonly found in expensive mice, so try it if you get the chance because it's just possible that you'll love it.

Verdict **82%**

Mouse
Operation
Quality
Verdict
Roctec Mouse


For simulations and arcade-type games the Roctec mouse handles quite well. It is nice to hold, and comfortable to use. The buttons are microswitched and fairly responsive, but nothing amazingly special.

The fairly low 200 dpi resolution means that high precision work in *DPaint IV* and other art packages is slightly limited, but not terribly bad.

Better than some....

The unit is fairly strongly built, and not bad looking, although it is a little bright and tends to discolour after a short while.

The design includes a third button positioned at the rear of the mouse. Although Intuition (the Amiga GUI controller) supports a third fire button we don't know of any software that has made use of it so far, so it is effectively redundant (as with all other tri-buttoned devices). It's quite difficult to press in this case however, so it should not get in the way for general use.

At around 17 spondoolicks the Roctec is reasonable value for money, and worth a test drive. It's nice to hold, looks fairly smart and handles most applications fairly comfortably.

It doesn't come with a mat or a mouse holder, though, so you may have a little more shelling out to do if you have already plumped for this choice.

Verdict **74%**

Squik Mouse


The Squik mouse is very responsive for simulation and arcade-type games, and it also works well in art or DTP-type packages even when working in a high resolution screen mode.

The device feels pretty good to hold, settling nicely into the palm of your hand. The buttons are within nice easy reach and they are microswitched, making a very professional and an extremely useable unit.

This mouse is an identical shape to the Golden Image, and made of the same sturdy material, and hence it looks good and feels excellent.

The buttons give a good sounding 'click' when pressed, but seem a little less stout than they should be, especially when compared to its nearest competitors.

There is a mouse holder included in the £17 price, but no mat, so depending on your point of view this may be more suitable than the Golden image - give it a go if possible.

This is easily compared with the Golden Image model, because the casing is obviously made by the same company.

For general applications the movement response is very good, but the lack of strength in the buttons lets it down ever so slightly.

A good value mouse which stands up well on its own and should be tried out if possible.

Verdict **80%**

Naksha Mouse


For all types of application, from DTP and art packages to arcade and simulation games, the Naksha mouse performs incredibly well. The resolution is high at 280 d.p.i., which means it is good for highly detailed work too.

It feels very nice to use, being rather heavy which gives it an air of quality when moving it about the mat.

This product has proven itself in the past, and will continue to do so I'm sure.

The device is extremely well-built, made from a robust beige-coloured material, and designed to fit neatly into the palm of your hand. The buttons are within easy reach and feel very strong. The whole unit gives you the feeling that it's going to last for years to come.

O.K., it's 30 quid, which is a lot more expensive than the GI and the Mega Mouse, but then it is supplied with a mat and a mouse holder and a free copy of *Operation Stealth*, which may be old but it is still an extremely good adventure game.

The Naksha has been around for a long time, and one or two can be spotted around the *Amiga Format* office e'en now.

At the time of its release it was acclaimed as the best mouse, and it still holds its own against the competition with its incredible response and robust nature.

At around £30, it is still cheap for such a good mouse package.

Verdict **89%**

Alfa Data Optical Mouse


Don't be fooled by the packaging of this mouse, it may have a resolution of 300 d.p.i. but it isn't a patch on any of its mechanical equivalents.

While playing simulations I like to have a lot of space for my frenzied mousing, but this particular model requires its mat in order to work and this is just a tad too small.

Still, it's pretty good for use in *DPaint IV* (even in high resolution mode) and other similar packages.

The unit looks and feels a bit cheapy plasticky, which isn't a good thing considering its price, but the insides should last a while as there are no moving parts. The buttons are microswitched, but why is there three of them?

Every mouse here has a cord of at least 6ft in length, except this one which is 5ft. Yet which one advertises a 6ft length? Yep, you guessed it... (Nit-picking? Me??)

On the plus side, it will work in zero gravity, so anybody working in deep space should buy this.

I could never see the attraction of optical mice. Yes, they require less cleaning and no, they have no moving parts, but apart from that what have you got? A cheap looking mouse with an expensive price tag, that doesn't perform as well as some of its mechanical equivalents. It does have a two year guarantee, though, so if you don't lose the mat you should be OK.

Verdict **64%**

Mega Mouse


The Mega Mouse conjures up images of some fantastic rodent with all the mod cons such as go-faster stripes. Thankfully the little beast is a smart-looking, low profile mouse that is actually very good in use.

It's well geared, so it doesn't fly from one end of the screen to the other in the space of a millimetre but it's definitely not sluggish.

Overall, it performs very well indeed.

The mouse has got a nice feel to it, it's not too light, with a decently heavy ball to give you some tactile feedback when in use, and I like a bit of tactile feedback. The buttons are pretty well weighted and not too sensitive so it's not easy to activate them accidentally.

Included in the package is, er... well, not much really, not so much as a mouse mat. Other than that there's nothing to choose between this and the Golden Image.

It comes in typical mouse colours, and is very well made.

The megastastic thing about this mouse, however, is the price. At £12.95, you simply can't go wrong. It's such a bargain, I think you should buy one even if your old mouse is fine.

Despite the fact that it doesn't come with its own mat, it performs as well as most of the other mice, but at a low, low price. The man from *Amiga Format*, he say yeah.

Verdict **GOLD 90%**



Mouse

Operation

Quality

Verdict



Marconi RB2 Trackball

We described a trackball as an upside-down mouse. OK, they aren't quite the same, but the principle is there. Generally, trackballs lend themselves admirably to paint and art type applications, and this model is no exception. It feels quite good to use, being very similar in size, shape and movement to the trackballs found on arcade games such as *World Cup* but has a tendency to slip when moving the ball at speed.

The unit is of a generally sturdy construction, in a similar way to its substantial elder brother the breeze block, but without any of the aesthetic characteristics. Although the ball is responsive enough, it does tend to rattle quite a lot which seems to be a standard feature on all expensive trackballs. The buttons are of the pressure variety, not microswitch, so don't expect them to last forever. At fivepence less than £50, this is unbelievably overpriced, and not likely to set your trolleys alight.

I remember using a trackball which was very similar to this way back in the days of the BBC micro. Since then, it doesn't appear to have been redesigned in any way, and the price is almost the same. Sorry, Marconi, but the clumsy construction and lack of response from this unit make it an option strictly for the more-money-than-sense brigade.

Verdict 48%



Victory Trackball

The only real gripe I have with the Victory is that both buttons are on the right hand side of the unit, which seems suitable for left-handers only. Apparently the theory is that you operate the unit single-handedly, working the ball with your thumb and the buttons with your fingers. Unless you only possess one hand, however, this seems like a silly idea. After all, what would two-handed people do with the spare one?

For about £22, the Victory has to be considered a good buy if you like the idea of owning a trackball, but are a bit short on dosh. The case is constructed from a very robust material, which is excellent especially for such a low-budget device. The controls are also excellent – a very solid ball which feels excellent (if a little small), and very responsive microswitched control buttons. All in all, this is not just a good budget choice, but a device which rivals the other more expensive options.

A nice-looking unit, quite compact and pretty robust. Far from an unpleasant trackball to operate, although some people may consider the ball a little too small for easy use. The main problem is in the position of the buttons – if you are left-handed, single-handed, or if you think you can live with them anyway, you could do a lot worse.

Verdict 75%



TKB Trackball

Compared with the other trackballs featured here, the TKB is competent, with good response and a nice feel. However, I do have one slight niggle. The key which locks the left fire button is positioned on the front of the unit, in exactly the place where you rest your wrist when operating the ball. This is useful for DTP, but can be disastrous for arcade games, and could easily have been positioned elsewhere.

The TKB trackball has a very solid air about it, with a good sturdy case and microswitched fire buttons. At 35 quid for the basic model it is quite expensive, but it is probably worth it if you only want it for DTP or art applications. The unit is also available in a sort of 'disco' version with a clear plexi-glass ball and a set of red and green neons underneath which light up when you press a button. What an absolutely ridiculous idea, especially when you consider it sticks an extra fiver on the price.

A good all-purpose trackball, if you can get to grips with the silly position of the autofire button. If you're thinking of shelling out the extra £5 for the flashy version - DON'T! The gimmick value will last until just before you take it out of the shop, so when you actually get it home you can expect to be shouting "Oh, no! What have I bought!?" quite a lot.

Verdict 71%



Geni Trac Trackball

The Geni Trac is really the only trackball of this little lot which appears to have been designed with the user in mind. Each of the others have small design faults which spoil the overall feel of the particular unit. Not so the GT, though. The controls are incredibly responsive, as are the microswitched fire buttons, and the unit performs well for both detailed applications and action games.

This unit is far and away the best looking of the bunch – the designers have gone to town and created a discreet, stylish and extremely ergonomic trackball. The casing has a large area on which you can comfortably rest your wrist, and buttons which are nicely positioned for operation using your thumb. The ball is also well placed, but does tend to rattle a bit when used for arcade games. If rattly balls don't bother you, though, this may be the device for you!

At around £50, this unit (along with the RB2) represents the top-of-the-range of trackballs. Unlike the RB2, though, this one almost warrants the high price tag because it looks and feels so damned good! So, is it the best? Well yes, if you can afford it, but you must consider that you can buy a hell of a lot for 50 quid, so think carefully.

Verdict 82%

Mice:

Contriver	£15.00	Power Computing	0234 843388
Jin	£9.99	Ladbroke Computing	0772 203166
Golden Image	£14.99	Ladbroke Computing	0772 203166
Logitech Kidz	£32.00	Logi (UK) Ltd	0344 891313
Genius Happy	£14.95	ZCL	0543 414817
Roctec	£16.99	Silica	081 309 5000
Squik	£16.98	Silica	081 309 5000
Naksha	£29.24	Silica	081 309 5000
Alfa Data Optical	£35.95	Golden Image U.K.	081 365 1102
Alfa Data Mega	£12.95	Golden Image U.K.	081 365 1102

Trackballs:

Marconi RB2	£49.95	Silica	081 309 5000
Victory	£22.00	Computer Mates	0753 553 535
TKB	£34.95	Golden Image U.K.	081 365 1102
TKB Crystal	£39.95	Golden Image U.K.	081 365 1102
Geni Trac	£49.95	ZCL	0543 414 817

Please note: As you can see from the box above, Golden Image products are no longer available from Golden Image UK, who now mostly distribute AlfaData products. Golden Image equipment is distributed in this country by Ladbroke Computing (0772 203166) who are also known as Golden Image Distribution GB. Phew!

SEIKOSHA

- DOT MATRIX
- LASER
- THERMAL

PRINTERS

WITH ONE YEAR ON-SITE WARRANTY

Silica Systems are pleased to recommend Seikosha printers to you at **LOW PROMOTIONAL PRICES**. The Seikosha range is built to the highest standards, by a company that is used to manufacturing high quality precision products. In fact, you may be wearing one of these products on your wrist, as Seikosha are part of the massive Seiko/Epson group (with a turnover of £6 billion and 18,000 staff).

When you buy a Seikosha dot matrix printer from Silica, we will give you a **Silica PRINTER STARTER KIT** (worth £25 + VAT = £29.38) **FREE OF CHARGE**, to make sure you get off to a flying start with your new printer. For further information on the Seikosha range, complete and return the coupon below. Or, if you can't wait to get your hands on a new Seikosha printer, telephone our mail order hotline, 081-309 1111 to place your order now.

Silica now offer a full one year on-site warranty with every Seikosha printer, (except the SLP Plus), included in the price! In the unlikely event of a problem with your Seikosha printer, an engineer will visit your home or business within 8 working hours of your call (on-site warranty effective for UK mainland locations only).

FREE! FROM SILICA

- **DELIVERY** Next day - anywhere in the UK mainland.
- **HELPLINE** Technical helpline during office hours.
- **STARTER KIT** With every Seikosha dot matrix printer.

9-PIN PRINTER

NOW WITH 1 YEAR ON-SITE WARRANTY



192 CPS **80 COLUMN**

- Seikosha SP-1900 Plus - 9 pin - 80 col
- 192cps Draft, 48cps NLO
- 1K Printer Buffer + 2 Fonts
- Parallel Interface
- Graphics Resolutions: 144x72dpi
- Epson and IBM Emulation
- Auto Sheet Feeder Option
- FREE Silica Printer Starter Kit

PRINTER RRP £155.00
STARTER KIT £25.00
TOTAL RRP: £180.00
SAVING: £71.00
SILICA PRICE: £109.00

£109
+VAT = £128.08 Ref. PRI 8195

9-PIN PRINTER

NOW WITH 1 YEAR ON-SITE WARRANTY



300 CPS **80 COLUMN**

- Seikosha SP-2400 - 9 pin - 80 col
- 300cps SD, 240cps D, 60cps NLO
- 21K Printer Buffer + 5 Fonts
- Parallel and Serial Interfaces
- Graphics Resolutions: 240x144dpi
- Epson and IBM Emulation
- Optional Auto Sheet Feeder Unit
- FREE Silica Printer Starter Kit

PRINTER RRP £199.00
STARTER KIT £25.00
TOTAL RRP: £224.00
SAVING: £79.00
SILICA PRICE: £145.00

£145
+VAT = £170.35 Ref. PRI 8204

24-PIN PRINTER

NOW WITH 1 YEAR ON-SITE WARRANTY



240 CPS **80 COLUMN**

- Seikosha SL-92 Plus - 24 pin - 80 col
- 240cps Draft, 80cps LQ
- 44K Printer Buffer + 9 Fonts
- Parallel Interface
- Graphics Resolutions: 360x360dpi
- Epson Emulation
- FREE Silica Printer Starter Kit

PRINTER RRP £280.00
STARTER KIT £25.00
TOTAL RRP: £305.00
SAVING: £110.00
SILICA PRICE: £195.00

£195
+VAT = £229.13 Ref. PRI 8292

NOTEBOOK PRINTER



144 CPS **80 COLUMN**

- For IBM PC compatibles only
- Seikosha LT-20DX - 24 pin - 80 col
- 180cps SD, 144cps Draft, 60cps LQ
- 1K Printer Buffer + 9 Fonts
- Parallel Interface
- Graphics Resolution: 360x180dpi
- Epson and IBM Emulation
- Built-in 50 Sheet Auto Feeder
- FREE Silica Printer Starter Kit

PRINTER RRP £299.00
STARTER KIT £25.00
TOTAL RRP: £324.00
SAVING: £65.00
SILICA PRICE: £259.00

LASER PRINTER



NEW! 1 YEAR ON-SITE WARRANTY

- 8 Pages per minute
- HP LaserJet III™ Compatible
- PostScript Emulation Option
- Edge Smoothing by EET Technology
- 8 Scalable + 14 Bitmap Fonts.
- 2 HP-compatible Font Cartridge Slots
- 1Mb RAM expandable to 5Mb
- Flexible Media Handling up to 550 Sheets in paper cassettes
- Compact Design
- Quiet Operation <47dBA

RRP £1349 + VAT
SILICA PRICE £999
+VAT = £1173.82 Ref. LAS 8108

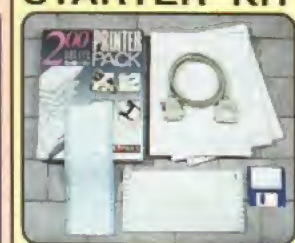
LABEL PRINTER

NEW! 'PLUS' MODEL INCLUDES WINDOWS DRIVER

The New Seikosha Smart Label Printer PLUS now includes a Windows Driver, has the ability to mix fonts on the same label and many other new features. Within its compact dimensions it will provide letter quality address labels, file labels and bar code labels on demand, working in the background, while your normal desktop printer gets on with the documents. Using memory resident software, that works with most standard PC compatibles, the Smart Label Printer PLUS is able to produce a label from the screen text of most popular software packages. It comes supplied with a power cord, a serial cable, SLP software and labels. Apple Macintosh version also available at a new low Silica Price of (£179.00) (PRI 8012)

RRP £249 + VAT
SILICA PRICE £199
+VAT = £233.83 Ref. PRI 8015

FREE! STARTER KIT



Every Seikosha dot matrix printer from Silica comes with the Silica Printer Starter Kit, worth £29.38 (£25 + VAT) completely FREE OF CHARGE. It includes all you need to get up and running with your new printer.

- 3 1/2" Disk with Amiga & ST Printer Drivers
- 1.8 Metre Parallel Printer Cable
- 200 Sheets of Quality Continuous Paper
- 100 Continuous Tractor Feed Address Labels
- 3 Continuous Envelopes on Tractor Feed

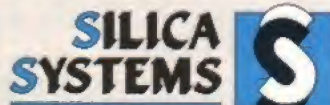
Printer owners may order the Silica Kit (ref. KIT 5000) for only £24.38 - £5 off RRP! WORTH £29.38

SILICA SYSTEMS OFFER YOU

- **FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.
- **TECHNICAL SUPPORT HELPLINE:** Team of technical experts at your service.
- **PRICE MATCH:** We normally match competitors on a "Same product - Same price" basis.
- **ESTABLISHED 12 YEARS:** Proven track record in professional computer sales.
- **BUSINESS + EDUCATION + GOVERNMENT:** Volume discounts available 081-308 0888.
- **SHOWROOMS:** Demonstration and training facilities at our London & Sidcup branches.
- **THE FULL STOCK RANGE:** All of your requirements from one supplier.
- **FREE CATALOGUES:** Will be mailed to you with offers and software/peripheral details.
- **PAYMENT:** By cash, cheque and all major credit cards.

Before you decide when to buy your new printer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals and accessories, or help and advice. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for over 12 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

MAIL ORDER HOTLINE
081-309 1111



MAIL ORDER: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-309 1111
Order Lines Open Mon-Sat 9.00am-6.00pm No Late Night Opening Fax No: 081-308 0608

LONDON SHOP: 52 Tottenham Court Road, London, W1P 0BA Tel: 071-580 4000
Opening Hours: Mon-Sat 9.30am-6.00pm No Late Night Opening Fax No: 071-323 4737

LONDON SHOP: Selfridges (1st Floor), Oxford Street, London, W1A 1AB Tel: 071-629 1234
Opening Hours: Mon-Sat 9.30am-6.00pm Late Night: Thursday until 8pm Extension: 3914

SIDCUP SHOP: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-302 8811
Opening Hours: Mon-Sat 9.00am-5.30pm Late Night: Friday until 7pm Fax No: 081-308 0017

To: Silica Systems, AMFOR-0992-84 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX
PLEASE SEND A FREE BROCHURE ON SEIKOSHA

Mr/Mrs/Miss/Ms: Initials: Surname:

Address:

Postcode:

Tel (Home): Tel (Work):

Company Name (if applicable):

Which computer(s), if any, do you own?

Evesham Micros • ALL PRICES INCLUDE VAT & DELIVERY • Evesham Micros • ALL PRICES INCLUDE VAT & DELIVERY • Evesham Micros

ZY-FI Amplified Stereo Speakers

REALISE THE TRUE SOUND POTENTIAL OF YOUR AMIGA WITH THIS PAIR OF FULL RANGE SPEAKERS!



Your Amiga produces fine quality hi-fi stereo sound. Enjoy quality stereo sound reproduction to the full with this new design twin speaker system! Incorporates a built-in amplifier with separate adjustable volume controls for each speaker unit. Runs from PSU (supplied) or from batteries (not included).
Speaker Dimensions: 160x95x105mm (HxWxD)

ONLY £39.95

TOP VALUE 400dpi HANDY SCANNER

QUALITY SCANNING - AT THE RIGHT PRICE!

This Image Scanner package combines top quality hardware with the latest version of the distinctively powerful DAATASCAN PROFESSIONAL VERSION 2 software, now giving TRUE GREYSCALE CAPABILITY. At a genuine 400dpi scanning resolution, this new scanner produces truly superb quality scans. Has a full 105mm scanning width, variable brightness control and 100 / 200 / 300 / 400dpi resolution. Daatascan Professional Version 2 scanning and editing software allows real-time scanning in either line art or in up to 64 simulated grey scales. Provides powerful editing features and excellent compatibility with most DTP and Print Packages, eg. Deluxe Paint 4, Touch-Up.

ONLY £99.99

TRUEMOUSE

WE GUARANTEE that this is the smoothest, most responsive and accurate replacement mouse you can buy for the Amiga. Excellent performance, now with a 300dpi resolution. Amazing new price!



300dpi RESOLUTION

ONLY £14.99 SATISFACTION GUARANTEED

GOLDEN IMAGE OPTICAL MOUSE Amiga/ST compatible - excellent travel-accuracy assured. **NEW LOW PRICE!**.. £ 29.00

ROCGEN GENLOCK MK.II

OFFERING EXCEPTIONAL VALUE FOR MONEY, this fully compatible GENLOCK adaptor offers levels of quality, function and sophistication not normally available in this price category. Special features include the ability to record graphics & animations on video recorders and overlay graphic and text onto video. Capable of smooth and stable fading and overlaying effects with special tuning knob.



ONLY £79.99

ROCGEN PLUS

Compatible to any Amiga or Commodore CDTV, this NEW Genlock Adapter provides Advanced Special Effects and Performance Features without sacrificing user-friendliness! New Special Features include: Dual Dissolve control knobs providing freely adjustable degrees of overlay or invert (keyhole) effects; Auto Video pass-thru; extra Video throughput for separate line monitoring; RGB pass-thru for real-time editing of Amiga graphics; plus Key-in port for use with an external keying device.



ONLY £119.99

PHILIPS 15" TV/MONITOR

With its dedicated monitor input, this model combines the advantages of a high quality medium resolution colour monitor with the convenience of remote control Teletext TV - at an excellent low price! Features dark glass screen for improved contrast, plus full range 3-way speaker sound output.



£269.00 Including VAT, delivery & cable

Philips CM8833 Mk.II Monitor (Genuine UK version), includes cable and 1 Year on-site maintenance £ 219.00

A590 ADD-ON HARD DRIVES

A590 OWNERS! Expand your hard disk storage further with one of our add-on, externally cased SCSI Hard Drives, with 25ms autospinning NEC mechanisms and separate power supply. Plugs into the socket provided on the rear of the A590 unit.

External 40Mb SCSI Drive cased with PSU to directly add-on to the Commodore A590 £ 249.00

External 100Mb SCSI Drive cased with PSU £ 399.00

NEW FROM COMMODORE! AMIGA 600

• Built-in TV Modulator • Built-in IDE Hard Disk Controller • Kickstart 2 • 1Mb ChipRAM • Accepts Memory Cards

INCLUDES 12 MONTHS ON-SITE WARRANTY, 'DELUXE PAINT' & EXCITING GAME TITLE!

ONLY £349.99
2MB RAM/CLOCK VERSION £ 389.99



CBM 20MB HARD DISK VERSION ALSO AVAILABLE

£ 449.99 including 1 Year On-site Warranty

2MB RAM/CLOCK VERSION £ 489.99

N.B. Prices do not include Free Software

Evesham Micros SPECIAL HARD DISK UPGRADED MODELS

We are now able to supply Amiga A600's with larger hard disks. We take a standard single drive A600 and install a high quality 2 1/4" IDE hard drive.

A600 with 40Mb Hard Disk	£ 479.99	All models available with 2Mb RAM -- Please add £ 40.00
A600 with 80Mb Hard Disk	£ 579.99	
A600 with 120Mb Hard Disk	£ 699.99	

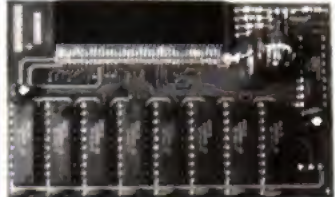
Please note that the hard disk installation is not covered by on-site warranty.

NEW FROM Evesham Micros A600 1MB RAM/CLOCK UPGRADE

UPGRADE YOUR NEW A600 TO 2Mb WITH THIS SIMPLE PLUG-IN MEMORY UPGRADE!

- Simply Plugs into the A600's trapdoor expansion area
- Increases total RAM capacity of A600 to 2Mb 'ChipRAM'
- RAM Enable / Disable Switch
- Battery-Backed Real-Time Clock

ONLY £49.99



NEW! A500 ROM SWITCHER

SWITCHING BETWEEN VERSIONS OF KICKSTART ON YOUR A500 IS EASY WITH OUR NEW ROM SWITCHER!

You can improve software compatibility on your A500 Plus! By fitting our ROM switcher, you can alternate between the Kickstart 2 already resident and another version of Kickstart ROM chip, giving you the freedom of choice. Fitting is very simple indeed, and requires no soldering or special technical knowledge. Fitting allows two methods of switching, either by keyboard reset, or by an external toggle switch. N.B. Kickstart ROM not supplied. A500 Revision 5A boards will require circuit modification.

ONLY £24.95

Kickstart 1.3 ROM supplied separately only £29.95
Kickstart 2.0 ROM supplied separately only £39.95
A500 Revision 5A PCB Circuit Modification Service £29.95

TRACKBALL

High performance trackball, directly compatible to any Amiga or Atari ST. Plugs into mouse or joystick port. Super-smooth and accurate - you probably won't want to use a mouse again after using this Trackball! Full one-handed control. Top quality opto-mechanical design, giving high speed and accuracy every time. No driver software needed!



ONLY £29.95

REPLACEMENT A500 PSU

Genuine Commodore Amiga A500 type replacement Power Supply Unit. Good quality 'switch mode' type. Super low price!



ONLY £39.95

Amiga 500 Service Exchange Power Supply £ 24.95

STEREO SOUND SAMPLER

Offering full compatibility with almost any Amiga audio digitiser package, our Sound Sampler features excellent circuitry, yielding professional results. The main A/D converter gives a digitising resolution of up to 50KHz, with a fast slew rate. Two phono sockets are provided for stereo line input, plus an option for microphone. Adjustable gain is achieved with built-in control knob. Complete with public domain disk containing sound sampling applications / utilities.



ONLY £29.95

MIDI INTERFACE

Our fully compatible, high quality MIDI interface connects directly with the Amiga serial port and provides IN, OUT & THRU ports for good flexibility. Features LED indicators on each port for diagnostic purposes. Superb compact design!



ONLY £19.95

VIRUS PROTECTOR

Our compact Virus Protector fits easily to the Port of the last disk drive in your Amiga system, protecting all internal and external drives from boot block viruses. Incorporates a switch to enable or disable the protection facility.

ONLY £6.95

PRINTERS

Prices Include VAT, Delivery and Connection Cable

Gold Star REGISTERED DEALER

Evesham Micros Star Printers include 12 MONTHS ON-SITE WARRANTY

STAR LC20 9-Pin Printer

SUCCESSOR TO THE BEST SELLING LC-10, WITH MANY FEATURES AND FAST OUTPUT

Providing superlative paper handling, four excellent NLQ fonts and a new super-fast print speed of 180cps in draft and 44 cps in NLQ, the LC20 appropriately supercedes the phenomenally successful LC10!



ONLY £129.99

Star LC24-200 COLOUR Printer

COMBINES HIGH QUALITY 24-PIN COLOUR PRINTING WITH EXCELLENT VERSATILITY - AT A BUDGET PRICE!

- 24-Pin 7-Colour Printer
- 200cps draft / 67cps LQ
- 222cps High speed draft facility
- 30K Buffer expandable to 62K
- Swivel Selectable Push or Pull Tractor, with bottom feed capability
- Advanced Paper Parking
- Electronic Dip Switches
- 10 Resident LQ fonts
- Includes Colour Ribbon



ONLY £269.99

Star LC 200 9-Pin Colour, 4 fonts, 180/45cps	£ 199.99
Star LC 24-20 24-Pin, 4 fonts, 180/60cps	£ 209.99
Automatic Sheet Feeder for 10" LC printers (pls state model)	£ 64.95
Star XB24-200 COLOUR 24-pin, 80 col. power printer	£ 369.00
Star XB24-250 132 column version of XB24-200	£ 439.99

Citizen Swift-24E including COLOUR Mt	£ 299.99
Olivetti JP-150 Inkjet good quality - exceptional value	£ 249.99
Olivetti JP-350 Inkjet excellent high speed 300dpi printer	£ 349.99
Hewlett-Packard Deskjet 500	£ 359.00
Hewlett-Packard Deskjet 500C (Colour)	£ 529.00
Citizen Project Inkjet Printer	£ 399.99
Epson LX400 budget 10" carriage 9-pin 180/25cps	£ 139.00
Epson LQ100 24-pin 180/60cps, 8k buffer	£ 205.00
Panasonic KXP1124I updated 24-pin model 300/100cps	£ 279.00
Panasonic KXP1123 good value 24-pin model	£ 215.00

NOVA

COMPUTERS
6 STEELE ROAD
MIDDLEWICH
CHESHIRE
CW10 0RA
TEL: (0606) 737551

OPEN: 10am-7pm Mon-Sun
**PLEASE NOTE
WE ARE MAIL
ORDER ONLY**

Please make an appointment if you wish to collect your order and save on postage costs.

**COLLECT YOUR
ORDER AND SAVE
POSTAGE**

AMIGAS

A500 PLUS + SOFTWARE (ltd) ...	£325
A600	£370
A600 + 20Mb HARD DISK	£465
A1500 + SOFTWARE	£550

PRINTERS

CITIZEN 120D+	£125
CITIZEN SWIFT 9	£190
CITIZEN PRODOT 9 (inc. col. kit)	£205
CITIZEN 224	£220
CITIZEN SWIFT 24E (inc. col. kit)	£280

All printers include leads
Add £7 for starter kit
(paper, labels + driver disk)

HARD DISKS

A500/A500+

CBM A590 20Mb	£280
GVP HD8 + 52Mb	£340
GVP HD8+ 120Mb	£450
GVP PC-286 PC EMULATOR	£230

A1500/A2000

GVP HD8+ 52Mb	£275
GVP HD8+ 120Mb	£420

MISCELLANEOUS

PHILIPS 8833 MK II MONITOR (inc. lead & F19)	£225
ROCTEC GENLOCK PLUS	£130
OPTICAL MOUSE	£29
QUICKSHOT PYTHON	£9
DIGI-VIEW MEDIATION	£130

ALSO AVAILABLE

AMIGA SOFTWARE UP TO 40% OFF RRP
SEGA CARTRIDGES UP TO 20% OFF RRP
WORKBENCH 2.04 UPGRADES
BRIDGEBOARDS
FULL RANGE OF GVP PERIPHERALS AVAILABLE

EVERYTHING FOR YOUR AMIGA, JUST RING FOR A PRICE



PRICES INCLUDE VAT.

PLEASE RING FOR POSTAGE COSTS.



We accept payment by Access, Visa, Connect, P.O.'s, Cheque.
(Please allow 10 days for cheque clearance)

KINGSFIELD

CONSOLES AND COMPUTERS

64 KINGSFIELD ROAD
BIDDULPH
STOKE-ON-TRENT
ST8 6DR

SEGA MEGA DRIVE INC SONIC	£116.99
AMIGA 600	£383.99
AMIGA 600 HD	£479.99

**WIDE RANGE OF HARDWARE
AND SOFTWARE FOR THE AMIGA AND OTHER MACHINES.
ALSO CONSOLES AND GAMES,
ALL AT LESS THAN RRP.**

PRICES INCLUDE VAT 3 - 5 DAY DELIVERY £7.50

P + P UNDER £100	£2.50
P + P OVER £100	£4.00

UK MAINLAND ONLY
PLEASE ALLOW 7 DAYS FOR CHEQUE CLEARANCE.

VISA

CHEQUES MADE PAYABLE TO KINGSFIELD



TEL: 0782 523892

£&OE

AMIGA FORMAT

164

SEPTEMBER 1992

MAKE YOUR AMIGA EARN!

Yes, making money with your AMIGA becomes incidental when you know how! Your AMIGA is, if only you knew it, a gold mine. The size and make is irrelevant. Make the initial effort NOW by starting your own HOME BASED BUSINESS.

This may be the most important move you will ever make!

REMEMBER: You'll never get rich by digging someone else's "ditch". Anyone in the country, including YOU, can become very rich in a relatively short period of time just by doing a few basic things! It's more rewarding than playing games.

The benefits are many and varied.
Full or part time.

For FREE DETAILS SEND S.A.E. to:

Home Based Business.

AF33, 31 Pilton Place, King and Queen Street,
Walworth, London SE17 1DR.



GENUINE COMMODORE PARTS

A500 Power Supply	£34.99*
A520 Modulator	£24.99
Internal Drive	£39.99
Mouse	£12.99
5719 Gary	£9.99
8364 Paula	£19.99
8362	£14.99
Amiga Manuals (User, Basic)	£14.99
Workbench Disk	£9.99
C2N Datarecorder (for C64)	£29.99

Prices include VAT & P&P. Cheques/P.O to:

Omnidale Supplies, 23 Curzon Street, Derby DE1 2ES
Tel: (0332) 291219. * Trade in your old PSU and pay £20

VISA

Access



Into mountain biking? Get into MBUK

- Team MBUK reveal their high-speed secrets
- World championships, what, where, and when
- WIN a Trek 700 worth £650

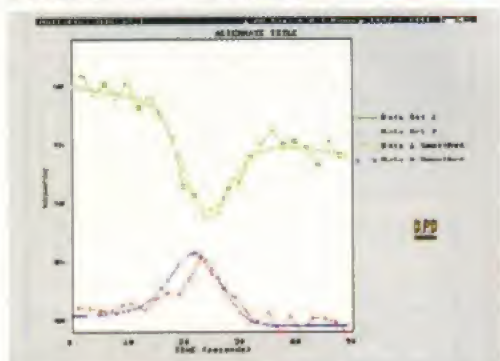
**August issue
in the shops
July 23**

And loads more **great action!** Only **£1.95** in the shops **NOW**

MBUK - Britain's best selling bike magazine

MULTILOT
DELTRAX PD U203A,B

TOOL



Growth for the third quarter was greater than the same period last... Erm, *Multiplot* makes creating graphs easy.

Of all the titles available in the Public Domain, this is one of the most professionally put-together ones I have seen. And it not only looks good – but its documentation is extremely detailed. So far so good, but what does the program actually do?

Well, *Multiplot* enables you to enter data and see it displayed on-screen in the form of a dotted or line graph plotted using traditional 'x' and 'y' coordinates. You can plot an unlimited number of data points using different colours or point symbols to differentiate between different sets of data.

You can load the data from either a text file, which you can create with any word processor or text editor, or saved spreadsheet data. This file does have to be of a certain file format, but this is all clearly explained in the documentation.

Once you've got the data in the right format for your graph, you can save it in a format which can be used by a number of other programs, including commercial ones such as *IntroCAD* (coincidentally on one of this month's Coverdisks). The graphs can also be output as PostScript files, for use in serious DTP applications, or as IFF files. It is also possible to print graphs directly from the program.

In terms of presentation, *Multiplot* is near-perfect. On-screen the program looks very professional, while the program's documentation file is very extensive. If you have the need for a plotting program, or produce a lot of graphs, then *Multiplot* is capable and flexible enough to handle most tasks.

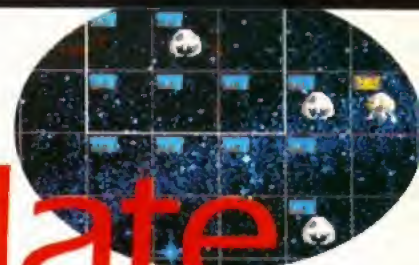
BATTLECARS 2
17 BIT SOFTWARE
1984

GAME



Battlecar's radar has picked up the computer's car in the distance. A press of the space bar will send a missile at it.

If you thought programs with fast-moving 3D vector graphics are confined to commercial games or PD demos you'd be wrong. *Battlecars 2* is one of the first

PD
Update

Come with us and enter the strange and wonderful world of Public Domain, where quality software usually costs no more than the price of a disk. Your guide on this journey is **Tim Howell**.

PD games to use this technique and it uses it to great car-crunching effect.

In the game, you control a futuristic armour-plated car which has to chase and destroy another car around a huge 800-by-800 metre arena within a set time limit. The car you're up against is controlled either by the computer or – only with the help of a null-modem cable – another player.

You have to chase the other car around the huge arena, guided only by your reactions and the help of an arrow which comes up on-screen to point you in the right direction. Once you've caught up with your foe, you have to shoot at it to wear down its armour-plating, preferably before it does the same to you.

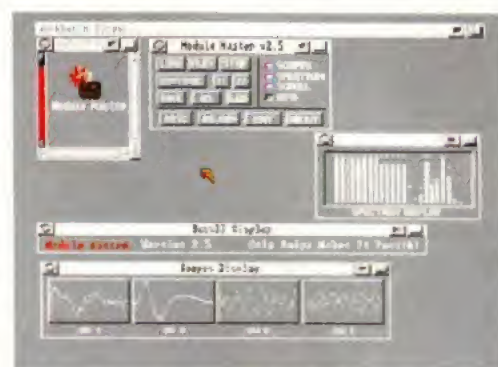
You've also got a supply of three radar-controlled missiles which can be used to create more damage more accurately. And if you're playing in two player mode, you deliberately ram into each other's cars.

While *Battlecars 2* is initially enjoyable, especially with another person, it can get a bit repetitive. The computer opponent is also too difficult to beat. This gets frustrating, especially as you get a 'Game Over' message at the end of the game regardless of how much you've damaged the computer's car. While it's technically impressive, the gameplay's only good for a two-player game, otherwise it's a bit limited.

MODULE MASTER
17 BIT SOFTWARE
1980

TOOL

Soundtracker utilities are the major tools used to create music on the Amiga. As a result there are dozens of them available in the Public Domain, but to get to hear any of them you usually have to load the program they were created with. Now, though, you could instead use



When *Module Master* plays sound modules, you can have a spectrum analyser and an oscilloscope shown on-screen.

Module Master to load and play modules created by the two popular music programs for the Amiga, *Soundtracker* and *Noisetracker*.

Not only can you play the modules, though, the program multi-tasks so you can play them while you're, say, working on a word processor or spreadsheeting your company's accounts. This is what multi-tasking was made for!

It is also possible to display a spectrum analyser of the music on-screen as it is being played, while a set of equaliser bars can also be shown. There's also a 'kaleidoscope' option which arranges pretty coloured lines on the screen while the music's playing. Like, hey wow man!

If you've collected a number of sound modules, or you simply want to play them without using the original program, then *Module Master* is really worth looking at. There are even some modules for you to play around with.

Continued on Page 168

JARGON BUSTING – WHAT IS PD?

Software in the Public Domain, or PD software, is marked out by the fact that it can be freely distributed. You are allowed to copy PD software from anyone and to give copies to anyone. It is widely available from small firms called PD libraries and also from bulletin boards that you can connect to if you have a modem.

It's programmed by enthusiasts who want to share their work and it comes in various flavours. The basic kind is 'freeware', which is completely free. Another common kind is 'shareware' – the programmer asks you to send a small fee if you like the program, in return for which he or she will often help you with any problems you may have or

send you any updated versions of the program. Another kind of PD is 'licenceware', for which a charge is made – it is akin to very cheap commercial software and uses PD libraries for distribution, but it can be very good value.

If you copy a PD disk, you are under a moral obligation to leave the disk exactly as it is, especially the 'read me' files which explain how the program is used and give the programmer credit for all the hard work.

The price of a PD disk from a library is usually around £2, so it's a great way to buy games, utilities and applications on a limited budget. You can also get some superb demos showing off the Amiga's ability to produce graphics and music.



ALL DISKS
STILL ONLY
99p EACH

(%) = Magazine review score

(P) = Works on A500, A500 Plus and A600

PAGESTREAM OUTLINE FONTS PACK 1 OR 2 (P) £4.95

Each pack contains approx 50 superb new outline fonts for Pagestream V2.1 or higher... *fantastic!*

HOME MANAGEMENT PACK 3 DISKS (P) £2.97

Calendar, Mortgage, Spreadsheet, Grammar, Mileage, World Time, Budget, Checkbook, Database, Typing Tutor, Typewriter, Grocery, List Maker, Home Banking

CLIPART PACKS 1, 2 OR 3 EACH PACK = 5 DISKS £4.95

3 different packs of 5 disks, all full of the very best clipart for DPaint etc. (P)

FONTS PACK 1 OR 2 EACH PACK = 5 DISKS £4.95

5 different packs of 5 disks, pack 1 contains Publisher fonts, various fonts, fonts disk 2, Cosmopolitan fonts, large fonts (loads of great fonts for DPaint etc.) (P)

ANGLIA COLOURFONTS (P) 5 DISKS £4.95

5 disks full of original colour fonts produced here at Anglia. These are 16 colour fonts - not out and paste! They are produced in the same way as the chisel font supplied with DPaint and the Kara range of commercial fonts. They are typed straight in and work with DPaint and TV Text.

EDUCATION PACK 1 (P) 5 DISKS £4.95

German, Globe, Genome, Drawmap, Evolution, Claudi, Formula, Artil, Gravity Sim, Weather, Why Make and more! (This pack is one of our best sellers and is inordinate value for money!)

ASTRONOMY PACK (P) 4 DISKS £3.96

This superb pack now includes Star Chart, AmigaSoft, Total Concepts Astronomy, Gravily Well, Grav Sim, Orbit, Planet and Fast Facts on the solar system.

PRINTER USER PACK (P) 4 DISKS £3.96

Essential for all printer owners! Includes Label Designer, Label Printer, Printer Driver Generator, Print Studio, Plus More!

PUZZLE PACK 2 (*) (P) 2 DISKS £1.98

Superb new pack for fans of crossword type puzzles, includes Wordsearch - Reader - Wordhat - Wordgame - Crosswords - Clap - Despatch

SIMULATIONS PACK (*) (P) 5 DISKS £4.95

All of the best PD simulations in one pack! Metro - Be a city planner, King Oil - you are J.R.I. Nuke - Nuclear arms race, Impresum Romanum - Grab ancient Mediterranean power, Sealance - Save the world with your nuclear sub, Tractor - Run your own tractor company, DC10 - Learn to fly a DC10 jet, Lore of Conquest - Two players take over the galaxy! Insiders Club - Superb stockmarket simulation, Air Warrior - Take your pick from a huge range of aircraft with this excellent flight simulator!

EASY BUSINESS PACK (P) 5 DISKS £4.95

All programs included are powerful but easy! Includes Text Engine V3 (The very latest wordprocessor), Spread V1 (Spreadsheet), Gilise (Simple Database), Billie 3 (Good Database), Banker (Great accounts package), X-Spell (Spell checker), Print Studio.

INTERMEDIATE BUSINESS PACK (P) 5 DISKS £4.95

Wordwright (Wordprocessor including Mail Merge and Macros), S-Calc (Good Spreadsheet), AmigaBase Pro 97 (Spinning PD Database - New!), AmigaSoft (Spell Checker), L5 Labels (Infinite label control), AmigaSoft V2 (Amiga File Management - AC File Transfer), Amiga Fax (Desktop Publishing)

DISK EXPERT PACK (P) 5 DISKS £4.95

If you want to learn more about your Amiga, get this pack! - You'll be a disk expert in no time! Includes Power Raker (Easy file compacter), Sid (Brilliant CLJ Replacement Tool), Iconmania (Change any icon in seconds), Fiddis, Viruschecker V5.3, D-Copy (Copies, Repairs, Formats and more), CU Tutorial (All you need to know) and 502 other utilities!!

TC PROGRAMMERS PACK (P) 6 DISKS £5.94

A complete 'C' language and superb instruction manual provide all you need to learn the 'C' language, includes North C (2 disks) and the C Manual (4 disks)

MED V3 21 MUSIC PACK (P) 4 DISKS £3.96

MED is widely recognised as the best music package, PD or otherwise! This pack contains V3 21, the latest version complete with loads of digital samples, a disk full of MED music scores and some great MED music to load and play! Listen to what your machine is capable of!

500+ CLASSIC GAMES PACK (P) 5 DISKS £4.95

An incredible collection of superb commercial quality arcade games! Hours of fun for both kids and adults. Includes Defender, Galaxian, Scramble, Missile Command, Pac-Man, B-Panik, Dial, Space Invaders, Asteroids, Breakout, Tetris + more!

CARD + BOARD GAMES 2 (P) 4 DISKS £3.96

Another outstanding collection! 38 very good 'Thinking' Games! Chess V2, Backgammon, Backlot, Towers, Pipe, Zerg, Maze, Quedo, Connect4, Dominoes, Draughts, Othello, Go-Mat, Dragon Tiles, Klondike, Canfield, Mastermind, Wordsearch, Hangman, Pinpoint and many more.

Please note all packs disks may be bought singly at 99p!

SINGLE DISKS AT ONLY 99p!

- BUSINESS**
 - 8351 (P) (85%) AmigaSoft (English Desk Top Publishing)
 - 8352 (P) (95%) 600 Business Letters (Superb! - Ready to use)
 - 8353 (P) (90%) AmigaSoft (Superb new bank account manager)
 - 8354 (P) (90%) QED (Very good wordprocessor for beginners)
 - 8355 (P) (90%) U-Edit V3.0A (Latest and greatest word proc)
 - 8356 (P) (85%) AmigaSoft Professional 97 (New! PD - Superb database)
 - 8357 (P) Appointments (never miss one! Get your Amiga remind you)
 - 8358 (P) (90%) Forms unlimited! (Design invoices etc, quickly and easily)
 - 8359 (P) A-Graph (very easy to use - make bar + line graphs and pie charts)
 - 8360 (P) (85%) Yet Engine V3 (great looking wordprocessor, easy yet powerful!)
 - 8361 (P) (85%) Billie 3 V5.3 (Latest Database now includes better printouts and mailing labels)
 - 8362 (P) (90%) Phone-Plus (Store phone numbers, print address labels, phone)

UTILITIES

- U413 (P) (100%) Sid V1.8 (makes you a master of CLJ)
- U416 (P) (70%) CL Tutorial (Learn all about it)
- U437 (P) (95%) D-Copy V9 (Now an even better disk copier!)
- U478 (P) Typing Tutor (New! Great features)
- U494 (P) Pascal (2 disks - brilliant language)
- U495 (P) (97%) Viruschecker V5.04 (P) (The latest - for the plus tool)
- U496 (P) (95%) Messyid V5 (reads and writes PC disks)
- U497 (P) (95%) A500+ Utilities (For the A500+ only!)
- U4004 (P) Pools Predictor (significantly improves your chances)
- U4005 (P) (75%) Turbo Impolator (savezse loads more on to disk)
- U4006 (P) Fancy disk label designer (the best around, in colour tool)
- U4007 (P) (93%) Disk Optimiser (brilliantly simple! Any disk loads up to 15 times faster)
- U4008 (P) Sid V2 (It's superb!!! Fully functional)
- U4009 (P) Amiga Tutorial (A beginners manual on disk, superb)
- U4010 (P) (98%) HDClick V2 + File Minder (Superb hard disk menu maker - Directory Utility (NEW!))
- U4011 (P) Race Rater (Horse race predictor - Good (NEW!))
- U4012 (P) (92%) Magnetic Pages V1.3 (Produce your own superb disk magazines (NEW!))
- U4013 (P) (85%) Jd Power Logo (Full language (NEW!))
- U4014 (P) Last (Easy to use LHard, Arc & Zool (NEW!))

GAMES - (*=1MEG)

- G6013 (P) Chess Tutor (improve your skill) includes a full chess game!
- G6019 (P) (P) A500+ Games (21 Games for the Plus!)
- G6021 (P) (90%) Tans (great fun! get it now - you won't be disappointed)
- G6022 (P) Cluedo (100% accurate version of the board game)
- G6025 (P) Monopoly (excellent American plus compatible version)
- G6027 (P) (91%) Lothian (Superb ultra type adventure - great graphics - hard of monsters! (NEW!))
- G6028 (P) (95%) Defenders! (Almost exact arcade conversion - brilliant)
- G671 (P) (90%) AmigaSoft (The best Asteroids Game)
- G684 (P) (85%) Blizzards (*) (PD's best shoot em up)
- G689 (P) PomPom Gunner V2 (Latest - new levels)

CHILDRENS

- C701 (P) Learn + Play (2 disks - super education for 4-10yrs)
- C712 (P) Colour Pad (New colouring book for youngsters)
- C713 (P) (90%) Peters Quest (Lots of fun platform game)
- C714 (94%) Storyland 2 (Brilliant kids game)
- C715 (P) Composer (simply superb music maker for 10yrs +)
- C717 (P) Frogger (Classic Frog fun for under 10s)
- C718 (P) (92%) Centipede (wonderful graphics, brilliant game for ages 8 to adult)
- C719 (P) (87%) Total Concepts (2 Disks) (Astronomy & Dinosaur Education Pack - Good)
- C720 (P) Colour the alphabet (Great education for early learners. 4yrs)
- C721 (P) Languages! (Practice French, German and Spanish)
- C724 (P) (95%) Doodly (Like Mario Bros and very good - NEW!)
- C725 (P) (91%) Mr. Mrs. Platform adventure for 7yrs+ - it's got everything!! (NEW)

DESKTOP VIDEO PACK 2 (P) 4 DISKS £3.96

Probably our best pack yet! Provides everything to start you off in video. 5 Movie for Smooth scrolling titles using any font of any size. Showbiz for slideshows with loads of wipes and fades. A-Graph for business videos. Shadow Maker to add shadows and smooth any font. Video Librarian. Video Tools. Video Tests. Loads of fonts and more!

DESKTOP VIDEO PACK 2 INSTRUCTION MANUAL!!! (P) £2.99

A 50 page instruction manual for DTV pack 2. Professionally printed, contains instructions for all the programs in the pack and a section on fonts and how to use them! Also includes a superb guided tutorial that takes you through the major programs step by step, letting you create your own titles as you go! Designed for beginners and experienced users, this manual will make desktop video easy!

FISH DISKS IN STOCK 350-650 ONLY 99P EACH!

DEJA-VU IN STOCK 1-85 £3.99 EACH!

ANGLIA PUBLIC DOMAIN LIBRARY (Dept AMF), 115 Ranelagh Road, Felixstowe, Suffolk IP11 7HU

TELEPHONE 0394 283 494

Access VISA MASTERCARD

International orders welcome but please add 30p per disk for post & packing.

Simply phone your order through or send a cheque/postal order. Please add 60p to cover post and packing.

66 SEPTEMBER 1992

TEL 0924 366982
FAX 0924 200943

The No 1 Force in Amiga PD!

Disk Prices

FISH 17-BIT, T-BAG	£1.10
CLR	£1.50
SCHEME 17	£1.75

Please remember price IS per disk not per title

1 FREE DISK WITH EVERY 10 YOU BUY!

ORDERING DISKS

ALL MAJOR CREDIT CARDS ARE TAKEN. OPENING TIMES ARE

MONDAY - THURSDAY 9am-9pm
FRI - SAT 9am-5.30pm

PLEASE MAKE CHEQUES AND POSTAL ORDERS PAYABLE TO

17 BIT SOFTWARE

OUR ADDRESS IS
1st Floor Offices, 2/8 Market St
Walsfield WF1 1DH (Droit AF)

TELEPHONE - (0924) 366982
NOW 2 LINES

(foreign orders Add 20% Minimum £7)
Postal charges as follows

- 1-9 Disks 50p
- 10-19 Disks 75p
- 20+ Disks £1

Please don't forget to add the right amount.



PD GAMES

- 1959 Deedly (Platform Action)
- 1958 Hellzone (Shoot-Em-Up)
- 1946 Patrouin (Card Games)
- 1944 Great Version Of Frogger
- 1878 Total War
- 1872 Q-Bert
- 1869 Ski Challenge
- 1862 Bug Blaster
- 1749 Hollywood Trivia
- 1722 Diplomacy
- 1971 Super Pac Man 92

REMEMBER 1 FREE WITH 10

LATEST PD IN!!

- 2058 Space Odyssey Anim (2Meg)
- 2057 Kefrens Inspiration Demo
- 2056AB Take That Romeo
- 2055 Apple Catcher (Game)
- 2054 Rab C Nesbit Slides
- 2053 Sun Connection Slideshow
- 2052 C Jeremy Music 2
- 2051 Baldy (Great Game)
- 2050 Order V1.7 (Data Base)
- 2049AB Erasure Take A Chance
- 2048 Cricker (Game)
- 2047 Shining 8 Demo
- 2046 Frank Sidebottom Slides
- 2045 Pool! Folk Jokes (18)
- 2044 Saturn Flyer Anim
- 2043ABC Grapevine 10 (Mega)
- 2042 Protracker 2.2 (Now +OK*)
- 2041ABC Jerrr Slides (3 Disks)
- 2041 Bahram Slideshow
- 2039 Mumbo Jumbo Music
- 2038 Juro's Comp (Great Demos)
- 2037 24 Minute Techno from LSD
- 2036AB Half Brain Demo
- 2035 Black Energy Music
- 2034 Techno Tower
- 2033 Plus Issue 12
- 2032 Disk Magazine Creator
- 2031 Trailblazer (Game)
- 2030 Cry for Dawn Slideshow
- 2029 Grand Prix 92 Slides
- 2028 Satu+Invaders 2 (Game)
- 2027 Sweet Revenge Anim (2 Meg)
- 2026 Power Base V3 Demo
- 2024ABC A to Z of C64 Tunes
- 2023 Word Power (Superb)
- 2022 Amos Cricket
- 2020 Woz Is Name (Great Quiz)
- 2019 Megatron (Mega Game)
- 2018 Bin + Ban 2 (Utils+Games)
- 2011 Amiga Columns
- 2009 Nova + Dog (Puzzle Game)
- 2008 War (Great New Game)

SCHEME 17 DISKS

- +SS1 Great Instruments
- +SS2 More Great Instruments
- +SS3 More Instruments
- +SS4 Samples
- +SS5 Samples
- SS6 Techno Upgrade
- SS7 Make A Break Quiz
- SS8 Great Music Disk
- SS9 Tuff Enough By The Crusaders
- SS10 Techno Attack 1
- SS11 Techno Attack 2
- SS12 Christmas Karaoke Disk
- SS13 Techno Attack 3
- SS14 Crystal Symphonies 2
- SS15 Kids Karaoke
- SS16 Freak Scene (Rave Disk)

UTILITY DISKS

- 1954 Boot X 4.49 (Great Virus Killer)
- 1739 Super Killer 2 (Just Updated)
- 1943 Flash Copy
- 1989 Free Paint (Art Package)
- 1858 Boot Black Champ
- 1857 Icons Gallere
- 1811 Edit Keys (Keymap Editor)
- 1498 Test Engine 3 (Word Processor)
- 1703 Test Plus 3 (Word Processor)
- 1700 AmigaSoft (Home Finance)

WE NOW STOCK ALL MAJOR CONSOLE CHARTS EG. SUPER BUNCHBACK FOR GAME BOY ONLY £24.95 American Import

CLR (Central Licenseware)

- CLR01 Total Concept Demos 24.50
- CLR02 Total Concept Galaxy 64.50
- CLR03 Total Concepts Solo 24.99
- CLR04 Kiddies Colouring Pad 23.50
- CLR05 A-Chord (Guitar Tutor) 23.50
- CLR06 Video Tiler 23.50
- CLR07 Fish Indexer 23.50
- CLR08 Typing Tutor 23.50
- CLR09 Nerts (Arcade Game) 23.50
- CLR10 Dark Things (Platform) 23.50
- CLR11 Phase 2 /Shoot-Em-Up 23.50
- CLR12 System (Shoot-Em-Up) 23.50
- CLR13 Truckin On 23.50
- CLR14 Orlifation (Game) 23.50
- CLR15 Willy Water Works 23.50
- CLR16 Dragon Tiles (Puzzle) 23.50

2042 AT LAST A PROTRACKER FOR THE PLUS MACHINE!!! V2.2 (JUST IN!!!)

WE SPECIALIZE IN BACK CATALOGUE COMMERCIAL BLOCKBUSTERS!!! TEL FOR MORE DETAILS

PAGE CREATOR

Superb Entry Level DTP (Desk Top Publisher) ONLY £6.95! Upgrade Ready Every 6 Months

ALL NO'S WITH A ARE PLUS OK!

LOOK OUT FOR MORE GREAT CLR DISKS IN THE NEAR FUTURE

AMIGA REPAIRS

FIXED CHARGE ONLY £42.99 Incl.

FIXED CHARGE INCLUDES PARTS, LABOUR, DELIVERY, VAT
90 DAY WARRANTY ON ALL REPAIRS
24 HOUR TURN-AROUND ON 95% OF REPAIRS
ALL UPGRADES PURCHASED FROM US FITTED FREE WITH REPAIR
INCLUDES REPAIRS TO DRIVE & KEYBOARDS
FULL DIAGNOSTIC TEST AND SERVICE

Est. 11 Years

In Stock SPECIAL OFFERS New Low Price

- INTERNAL 3.5" DRIVE £38.99 Simple to fit, fully documented
- A500 KEYBOARDS £42.10 Factory new, Genuine part
- ROM SWITCHER £14.95 FATTER AGNUS 8372A Keyboard/mouse switched 1 Meg chipram compatible
- KICKSTART 1.3 ROM £25.00 CIA IC £10.93 For software compatibility Printer, Serial, Drive ports
- KICKSTART 2.04 ROM £28.70 GARY IC £11.50 Upgrade to A500+ Rom
- SUPER DENISE £29.90 PAULA IC £19.95 Excellent value
- 68000 CPU £15.00 DENISE £19.95

ATTENTION ALL DEALERS

Our company now offer the most competitive dealer repair service. Full credit facilities available. Send for our Free information pack today...

We reserve the right to refuse repair for whatever reasons
Prices only valid with this coupon
Service HOTLINE (0533) 470059

DART Computer Services
105 London Road
LEICESTER LE2 0PF

DART Computer Services

KINGSTON, SURREY

Major dealer for all Commodore products including A600 and CDTV.

Stockists of GVP hard drives & accelerators. Citizen & Canon printers. Philips monitors and accessories too numerous to list.

Our enthusiastic staff also insist that we stock a complete range of Sega, Nintendo and Lynx consoles.

NEW STORE NOW OPEN AT:

BARKMAN COMPUTERS

30 High Street,
Kingston-upon-Thames,
Surrey
081-546 5941



LIVEWIRE AF1,
RISCA, PO BOX 161,
NP1 6XY
TEL (0633) 615880
KEITH SAUNDERS
PROPRIETOR

Please note this is only a small proportion of Livewire stock! We sell Software/ hardware for nearly all computers/consoles! Phone for details. Please note that Livewire also stock a large selection of P.D. for the Atari ST and Amiga! For a list send a stamped self addressed envelope and a blank disk to us!

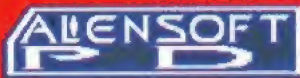
3D Construction.....£14.99	Leisure Suit Larry 2.....£10.99
4D Sports Boxing.....£9.95	Legend of the Lost.....£6.99
4D Sports Driving.....£9.95	Moonshine Racers.....£8.99
Afterburner.....£6.49	Mig 29 Fulcrum.....£8.99
Alpha Waves.....£6.49	Matrix Marauders.....£7.49
Awesome.....£8.99	Menace.....£7.49
Armalyte.....£7.99	Midnight Resistance.....£7.49
Badlands.....£7.99	Neighbours.....£7.49
Ballistix.....£7.49	Navy Moves.....£7.49
Back to the Future 2.....£7.99	Pitfighter.....£8.99
Barbarian II (Psychosis).....£12.99	Predator 2.....£7.49
Battle Squadron.....£7.49	Question of Sport.....£7.49
Betrayal.....£10.99	Race Driving.....£8.99
Blade Warrior.....£7.49	Run the Gauntlet.....£7.49
Bombuzal.....£5.99	Resolution 101.....£8.99
Brian Clough.....£7.49	Rugby The World Cup.....£8.99
Captain Planet.....£7.99	Round the Bend.....£7.49
Captain Fizz.....£6.49	Rolling Ronny.....£7.99
Challenge Golf.....£7.49	Stormball.....£8.99
Chambers of Shaolin.....£6.99	Spot.....£7.99
Champion of the Raj.....£7.49	Shockwave.....£7.49
Championship Run.....£6.99	Steve Davis Snooker.....£7.49
Chrono Quest 2.....£7.49	Stryx.....£7.49
Chariots of Wrath.....£6.99	Shadow of the Beast 2
Cisco Heat.....£10.99	(+ free T-shirt).....£10.99
Colossus Chess.....£7.49	The Ball Game.....£6.99
Days of Thunder.....£7.49	Thunderjaws.....£7.99
Devious Designs.....£7.99	The Hunt For Red October.....£7.49
Dragonbreed.....£6.99	The Executioner.....£7.49
Daily Double.....£6.99	Typhoon Thompson.....£6.99
Dark Sphyr.....£6.99	Under Pressure.....£6.99
Elf.....£7.49	Vaxine.....£7.49
Fire and Forget.....£6.99	Web of Terror.....£6.99
Germ Crazy.....£6.99	Zarathrusta.....£7.49
Horror Zombies from The Crypt.....£8.99	
Hunter.....£10.99	
Hydra.....£7.99	
Hard Driving 2.....£7.49	
Ishido.....£8.99	
Int. Championship Athletics.....£7.49	
Insects in Space.....£6.99	
Killing Cloud.....£7.49	
Keef the Thief.....£7.49	
	COMPILATIONS
	Fantasy Pak.....£9.95
	James Bond Collection.....£9.99
	Magnetic Scrolls Collection.....£9.99
	Star Collection.....£9.95
	Virtual Worlds.....£7.99
	Winning Team.....£9.99

ORDER DETAILS

Postage and packaging on all software titles is 75p per game (overseas £1.75). All items subject to availability. Please allow time for cheque clearance, although most software orders are despatched by return post. Please make all cheques payable to 'LIVEWIRE'. LIVEWIRE regrets that credit card orders will not be accepted at present!

MORE DISCOUNTS

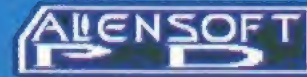
Please note at the time of this ad going to press we are expecting many many newer game titles at heavily discounted prices! Please phone for details.



GUARANTEED VIRUS FREE
25 BEECHWOOD AVE
POTTERS BAR
HERTS
EN6 2PJ



ENQUIRE ABOUT THE EVEN BIGGER DISCOUNTS
AVAILABLE ONLY TO MEMBERS OF



DEMOS

D001	PREDATORS MEGADEMO (2 DISKS)
D002	KEFRENS MEGADEMO
D003	MAGNETIC FIELDS demos36
D004	AMIGA CHART No.5
D005	BUDBRAINS MEGADEMO (2 DISKS)
D006	YES! IT'S MENTAL 2!
D007	IAN & MICK
D008	STREET-TUFF & OTHER DEMOS
D009	SCOPEX MENTAL HANGOVER
D010	DIGITISED PICCY SLIDESHOW (1 MEG)
D011	ITV DEMOS
D012	QUICKSTART DEMOS
D013	BATDANCE REMIX
D014	FRAXION HORROR
D015	PUGGS IN SPACE
D016	THR DEMO COMPILATION No.10
D017	HOT TRAX
D018	RED SECTOR MEGADEMO (2 DISKS)
D019	A.R.C. DEMOS 1
D020	A.R.C. DEMOS 2
D021	A.R.C. NODDY DEMO
D022	MONTY PYTHON DEMO (2 DRIVES, 2 DISKS)
D023	T.RICHTER STAR TREK GAME (2 DISKS)
D024	TRILLOGY MEGADEMO (2 DISKS)
D025	R.A.F. MEGADEMO (2 DISKS)
D026	LUXO TEENAGER (1 MEG)
D027	NOW THAT'S WHAT I CALL MUSIC Vol.1
D028	90'S DEMOS
D029	HORROR DEMO
D030	STAR TREK ANIMATIONS
D031	MUSIC COLLECTION no.2
D032	17 BIT SUPREME SOUNDS
D033	DR.AWESOME'S MEGAMIX
D034	KACTUS + MAHONY
D035	D-MOB MUSIC DISK 2
D036	DIGITAL CONCERT 2
D037	THE MIXERS 1
D038	BLIZZARD (SHOOT-EM-UP GAME)
D040	MIXERS 2 (BLOFLY RAP)
D041	STAR TREK GAME (2 DISKS 1 MEG)

D042	ALCATRAZ MEGADEMO (3 DISKS)
D043	CRIONICS MEGADEMO
D044	DIGITAL CONCERT 5
D045	TROPICAL SUNSET
D046	ANARCHY PACK
D047	REBELS MEGABLAST
D048	SPACE ACE DEMO
D049	CRUSADERS BACTERIA
D050	GATE MEGADEMO 2
D051	REBELS MEGADEMO
D052	CRYPTOBUARNERS MEGADEMO 2
D053	KEFRENS MEGADEMO 8 (2 DISKS)
D054	TRIP TO MARS AND OTHERS
D055	SILENTS MEGADEMO
D056	RAY TRACED PICCY'S SLIDESHOW
D057	ADEPT MEGADEMO
D059	PEUROPOLIS DEMOS 12
D058	ANARCHY - NO HOSTAGES
D060	CRUSADERS MUSIC
D070	INTUITION PACK 5
D071	TAROT - THE INNER YOU
D072	DONALD DUCK ANIM
D073	VIZ SLIDESHOW
D074	'EMBARASSED EASILY' (2 DISKS)
D075	MUSIC MAYHEM
D076	JUKE BOX JIVE
D077	MEGA MUSIC COMPILATION
D078	SUPREME SOUNDS
D079	MORK AND MINDY DEMO
D080	INDIANA JONES ANIM
D081	DIGITAL CONCERT 6
D082	VISION MEGADEMO 4
D083	CAPTURED IMAGINATION
D084	TIMECODE TOTAL RECALL DEMO
D085	TURTLEPOWER
D086	MADONNA MUSIC DEMO (2 DISKS)
D087	NIGHTBREED DEMO
D088	RELIANT VS ENTERPRISE (1 MEG)
D089	ENTERPRISE APPROACHING (1 MEG)
D090	DRY DOCK (1 MEG)
D091	DIGITAL CONCERT 4

D092	CRIME DEMOS 1
D093	EDUCATION OF COOL COUGAR
D094	FREDDY KRUGAR DEMO
D095	STD TURTLES
D096	KTS MEGADEMO
D097	CRIONICS NEVERWHERE
D098	EPIC GAME DEMO
D099	THAMES TV DEMO
D100	100 C64 GREATS
D101	NEUWTEK DEMO REEL 3 (2 DISKS)
D102	DIGITAL CONCERT 3
D103	WALKER I (1 MEG)
D104	WALKER II (1 MEG)
D105	POPEYE MEETS THE BEACH BOYS
D106	M.PYTHON "NUDGE" (2 DISKS)
D107	TOTAL REBATE
D108	M.FIELDS PD GAMES
D109	TECHNOTRONIC REMIX
D110	FLASCHBIER (GAME)
D111	BREAKOUT/CONSTRUCTION (GAME)
D112	FISH GAMES 4
D113	COMPUTER CONFLICT (GAME)
D114	PD GAMES 1
D115	PD GAMES 2
D116	PD GAMES 3
D117	SOUND OF SILENTS (1 MEG)
D118	CATCHPHRASE DEMO
D119	EURONET TURTLES DEMO
D120	INTUITION MEGADEMO
D121	DRAGONS LAIR DEMO
D122	PARTNERS IN CRIME MUSIC
D123	CULT MEGADEMO 2
D124	HOLSTEN PILS AD
D125	ABSOLUTE ANARCHY

DISCOUNTS

20 Disks.....	2% Off
50 Disks.....	3% Off
100 Disks.....	7% Off

Disk list is £1.00 and contains lots more titles than this small list!
PLEASE MAKE CHEQUES PAYABLE TO 'ALIENSOFT P. D.' POSTAL ORDERS WELCOME

THE NUMBER ONE NAME IN AMIGA PUBLIC DOMAIN

Remember to state disk name & code and to add £1.50 P&P

WAR

17 BIT SOFTWARE
2008

TOOL

War, what is it good for? Well, if this is the War you're talking about, then you'll probably find it good for playing.

The Vagans are battling with the Zardons for the supremacy of the universe. You, as commander of the Vagan fleet, have to take over the Zardons' base and destroy their ships in order to win.

War is a combined strategy and action game which can be played by either one or two players. The strategy element plays a major part in the



Here in deep, deep space the two sides move from one part of the universe to the next to claim it as their own.

game. The War universe that you are trying to take over consists of a number of zones; the more zones you take over, the more resources you have to build more and more new ships and also to improve your weaponry.

Some of the zones are controlled by Zardon forces, though, so to take control you have to go into battle. There are two forms of battle: one in space in which you have a mothership and four fighter ships up on each side, and another one on a planet's surface which is a one-on-one fight between the two sides.

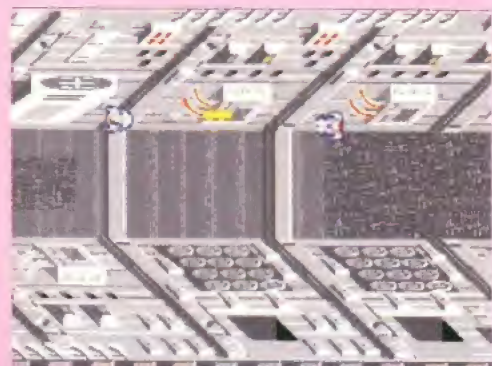
As you destroy the other side's ships and take over the universe, you can get increasingly power-



A key part of the game is to allocate your resources to ensure you can effectively compete with the other side.

ful, with more ships giving you more chances to gain control. Once you've destroyed all the opposition's ships and taken over its base - you have to fly down a scrolling overhead trench to do so - you win the battle.

War is an interesting mix of strategy and action elements that combine well to make a playable game. There are several different difficulty levels which make the game accessible to all types of players, and it's enjoyable as both a one and two-player game. And all this is accompanied by some atmospheric graphics and sound effects. If you fancy some action which involves a bit of thinking, this is well worth a look.



When you want to take over the opponent's mothership you are attacked by a series of ships down this trench.

AMIGA FORMAT

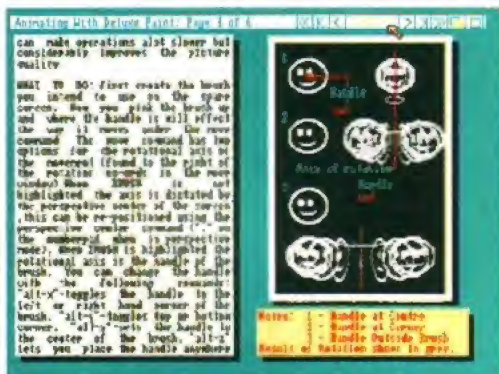
168

SEPTEMBER 1992

MAGNETIC PAGES

17 BIT SOFTWARE
1981

TOOL



This is one of the pages with Magnetic Pages, showing that text and graphics can both be used on a page.

Is the printed word becoming out-moded? It does seem to be the case with the massive growth of computer-orientated publications. And if you're thinking about creating your own computer fanzine, why not really impress fellow Amiga users by producing your own disk-based magazine?

Magnetic Pages enables you to create your own disk magazines. Well, the full version does - this is a cut-down shareware version which doesn't let you save the script files for your disk mag but still lets you create them. Magnetic Pages consists of three separate programs which are used together to get the final diskmag. Editor enables you to create articles, Organiser assembles these articles into the magazine, while Displayer displays the completed mag.

The programs are capable of creating some very good results. Text, as well as graphics, can be incorporated on a single page. And while this is happening you can have a digitised sample, MED or Soundtracker tune playing in the background as well. Once you've

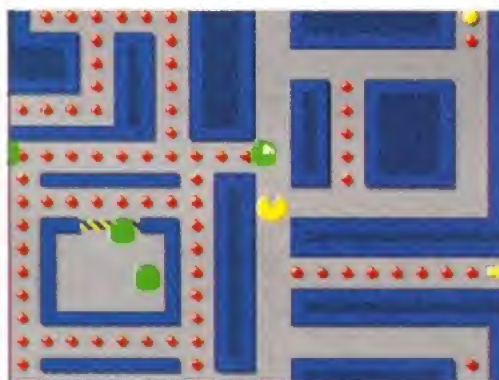
created the magazine (and there's a demo one on the disk to show you what the end result can look like), it's easy to switch between pages and articles.

Magnetic Pages gives you the opportunity to create your own disk magazines. While you can create a diskmag using the program, if you want to save it and run it independently you need to register and get the full version. At US\$30, or about £18, this doesn't cost too much to do. Budding publishers should take a look at Magnetic Pages.

SUPER PACMAN

17 BIT SOFTWARE
1973

GAME



Yes, it's that game again... But while the game's principle remains the same, it's played in a much larger arena.

There are dozens of clones available in Public Domain software, but this one from the demo group Pendle Europa could be the grand-daddy of them all.

Super Pacman really lives up to its name - the game takes place on a huge scrolling maze which is at least four screens square in size.

The action moves very smoothly, including the scrolling and the sprites, and all the while a lively little tune is being played in the background. Apart from Super Pacman's technical achievements, when it

comes to playing Super Pacman, you'll all be familiar with the old (even ancient) 'eat the dots and avoid the ghosts' formula.

While this obviously doesn't exactly constitute an advance in the gameplay concepts laid down by Pacman all those years ago, having the much larger maze means some new strategies have to be used if you are going to succeed.

Instead of being a direct copy of the Pacman arcade game - of which there are already far too many - Super Pacman is a valiant attempt at bringing a classic game idea up to date.

TOP TEN UTILITIES OF THE MONTH

Every month, we look at the best-selling utility and game PD disks from a particular library, so you can see what's popular...

AMIGANUTS

- 1 OctaMED
- 2 Amibase III
- 3 Amiga Coders Club (various)
- 4 AGene (Full Version)
- 5 TBAG (various)
- 6 Kefrens Powermenu
- 7 SID V2
- 8 Golf Recorder V3
- 9 Edward 2.2
- 10 Amicash Pro

WHERE TO GET THE DISKS IN THIS ISSUE

17 Bit Software, 1st Floor Offices, 2/8 Market Street, Wakefield WF1 1DH. Tel: 0924 366982

Deltrax PD, 36 Bodelwyddan Avenue, Old Colwyn, Clwyd LL29 9NP. Tel: 0492 515981

MJC COMPUTER SUPPLIES

Suppliers of Discount Software since 1984

Educational, Local Authority and government orders welcome. European orders please call or write for a quotation. All goods subject to availability, prices subject to change without notice. E&OE.

Prices include VAT and delivery by post.
Courier delivery available on request.
Please allow 5 days for cheque clearance.

TO ORDER: Credit card orders can be placed by calling the telephone number below - or send a cheque/PO's made out to MJC Supplies to:

MJC SUPPLIES (AF)
Unit 2 The Arches, Icknield Way,
Letchworth, Herts. SG6 1UJ.
Tel: (0462) 481166 (6 lines)

NAKSHA UPGRADE MOUSE

280 DPI quality replacement mouse - pack includes Mouse House, Mat and Operation Stealth game.
MJC PRICE £22.95

A500 PLUS 1Mb Expansion

1Mb expansion for the A500 Plus - fits in the trapdoor taking your memory to 2Mb - no internal fitting
MJC PRICE £39.95

NEW - ACTION REPLAY III

MJC PRICE £57.95

SUPRA 500RX 2Mb EXPANSION

This memory expansion for the A500+ uses 1Mb x 4 chips and can be expanded up to 8Mb
MJC PRICE £139.95

NEW - ROBOSHIFT

Auto sensing joystick/mouse switch box.
MJC PRICE £13.95

CUMANA CAX 354 DISK DRIVE

Quality brand name 3.5" second drive includes thru port, disable switch and FREE Virus X Utility
MJC PRICE £54.95

NEW ROCLITE RF382C DISK DRIVE

New super slimline, super quiet second drive.
MJC PRICE £57.95 (cream only)

AMIGA 600 COMPUTER

The latest Amiga computer featuring surface mount technology for greater reliability and the latest Workbench 2 comes complete with Deluxe Paint 3 & Lemmings

PLEASE NOTE: For total peace of mind these computers now come with 12 months on site warranty.

MJC PRICE £359.95
(Price includes free courier delivery)

AMIGA A600-HD

Includes a very neat internal 20Mb hard drive for those needing extra storage space and faster loading.

MJC PRICE £459.95
(Price includes free courier delivery)

AMIGA STARTER PACK

Includes: 10 disks, mouse mat, joystick, dust cover & disk box

MJC PRICE £19.95
OR
JUST £15.95 if purchased with an A600

AMIGA A600 CONTROL CENTRE

The Control Centres are manufactured by Premier Micros and are made from sheet steel with welded seams and Epoxy coated to match the A600. They are precision made to fit over the back of the A600 to make a perfect platform for a monitor and improve the look of the A600.

They also come complete with a shelf for extra drives and peripherals.

MJC PRICE £34.95
OR
JUST £29.95 if purchased with an A600

NEW - A600 1Mb EXPANSION

Increases the memory of the A600 to 2Mb
MJC PRICE £47.95

AMOS - The Creator

NEW - EASY AMOS - Powerful but easy ..£24.95

AMOS V1.2 - The original Language£32.95

AMOS COMPILER£19.95

AMOS 3D£21.95

AMIGA EDUCATIONAL

FUN SCHOOL -

Probably the best selling Educational Software for the Amiga - great sound and graphics and now conforms to the National Curriculum (FS3 & FS4)

Fun School 2 - 8 programs per pack

Fun School 2 under 6£9.95
Fun School 2 6 to 8£9.95
Fun School 2 over 8£9.95

Fun School 3 - 6 programs per pack

Fun School 3 under 5£15.95
Fun School 3 5 to 7£15.95
Fun School 3 over 7£15.95

NEW - Fun School 4 - 6 programs per pack

Fun School 4 under 5£16.95
Fun School 4 5 to 7£16.95
Fun School 4 7 to 11£16.95

All Fun School programs will work with a standard 512k Amiga and the new A500 Plus.

KOSMOS Answerback Junior Quiz -

Includes 750 general knowledge questions and a game reward£14.95

Answerback Senior Quiz -

As above but for age 12+£14.95

Factfiles - Add-on question packs for the Answerback Quiz:

Factfile Spelling (6-11)£7.95
Factfile Arithmetic (6-11)£7.95

KOSMOS Language Tutors: with a vocabulary of over 2500 words + the ability to add your own - up to GCSE level:

French Mistress£14.95
German Master£14.95
Spanish Tutor£14.95
Italian Tutor£14.95

KOSMOS Maths Adventure: The latest offering from Kosmos covers the National Curriculum maths using a series of four games. There are four difficulty levels and your performance can be kept and printed out. (6-14)£17.95

ROMBO PRODUCTS

NEW - TAKE 2

New Animation package from Rombo
MJC PRICE £59.95

RGB SPLITTER

For use with Vidichrome or Digiview. (includes PSU)
MJC PRICE £49.95

NEW - MEGAMIX MASTER

New Stereo sampler and digital effects package.
MJC PRICE £28.95

ROMBO PRICES HELD WHILST STOCKS LAST

NEW - VIDI AMIGA 12

Vidi Amiga 12 is the latest low cost colour digitiser from Rombo. There are no filters and no separate RGB Splitter. Colour images can be captured in less than a second. Mono images are grabbed in real time. Some of the features included are multi-tasking software, capture into a user definable window, composite or S-Video input, 4096 colour HAM mode, 64 colour EHB mode and many more.

PLEASE CALL FOR PRICE & AVAILABILITY

MISCELLANEOUS

Pro Midi Interface£19.95
Stereo Master£29.95
Techno Sound Turbo£29.95
Home Accounts 2£36.95
Hisoft Devpac 3£49.95
Hisoft Hi-Speed Pascal£69.95

NEW - MAXIPLAN 4

Latest release of this excellent spreadsheet - up to 3 worksheets open at once, 70 in-built functions, 12 graph styles, database facility, colour or mono printing and much more. Requires 1Mb.

MJC PRICE £34.95

NEW - KINDWORDS 3

Features include: Ability to open two documents at once, import Kindwords 2 files, Proximity spell checker and thesaurus, text flow around graphics.
Requires 1Mb RAM

MJC PRICE £32.95

Protect V4.3£39.95
Pen Pal V1.4£54.95
Wordworth V1.1 - UK Version£74.95

LCL SOFTWARE

Primary Maths Course (3-12)£19.95
Micro Maths (GCSE level)£19.95
Micro French (GCSE level)£19.95
Micro English (GCSE level)£19.95
Reading and Writing Course (3+)£19.95

NEW - MEET ADI!

ADI is a friendly alien being that appears on this latest range of educational software from Europress (the manufacturers of the Fun School range). Each package is specifically designed to follow the National Curriculum for a particular school year.

ENGLISH 11/12: Features pronouns, verbs, adverbs, spelling, synonyms and prefixes/suffixes**MJC Price £17.95**

ENGLISH 12/13: Using dictionaries and reference books, construct adverbs, punctuate sentences**MJC Price £17.95**

MATHS 11/12: Covers geometry, algebra, statistics, symmetry, quadrilaterals and number operations**MJC Price £17.95**

Further information on our Educational range is available in our Educational Supplement - on request

VISA

Remember - prices include VAT & delivery!

MasterCard

GOT A CAMERA?

THEN GET A COPY OF

TESTS

Minolta's latest camera, the 9xi, is put through the PhotoPlus labs. Is it, as Minolta claims, the fastest autofocus SLR in the world?

TIPS

Expert photographer Kos Evans explains how she gets stunning shots at sea

TECHNIQUES

Shoot fast action - top cycling photographer Steve Behr reveals his secrets



PLUS

WIN!
£2,500
WORTH OF
PHOTO PRIZES

Including three cameras from Olympus, and three Sigma zoom lenses, and loads of kit

All this for £1.95 Out NOW!

Another fine magazine from the people who brought you **AMIGA FORMAT**
Future Publishing

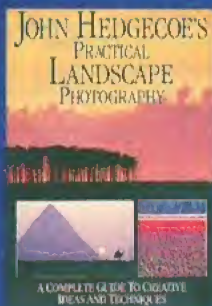
The
Modern
Guide to
Photography

Why not subscribe and receive a superb **FREE GIFT ?**

WORTH £14.99

**John Hedgecoe's
Practical Landscape
Photography**

This volume offers over 200 pages of practical advice and is crammed with 350 photos.



Subscription price is only £21.40 Save £2.00!

YES I wish to subscribe to PhotoPlus at the special price of £21.40. Issue 7 is illustrated here; please start my subscription with Photo Plus Issue Number..... (please complete)

- Credit Card
 Cheque (please make payable to Future Publishing Ltd)

NameSignature

Address

Post Code Tel No

Visa/Access Card No

Expires

**Please return this card with your cheque to: PhotoPlus Subscriptions,
FREEPOST, Somerton, TA11 6TB**

AF/1

PD	PD	PD	PD	PD
PD	39p	PD	PD	PD
PD	PD	PD	PD	PD
PD	PD	PD	PD	PD

THE P.D. PARLOUR

PROBABLY THE CHEAPEST IN THE UNIVERSE
No. your eyes are not deceiving you!
 You can now get public domain disks for an amazing 39p!!!
 Or you can get them for nothing if you send in your own blank disks! Write to the P.D. Parlour to find out how, and join our user friendly club!

The P.D. Parlour, 60 St. Aubyn Avenue. Keyham, Devonport, Plymouth PL2 1LL.

STRUCTURED CLIP ART

Top quality "Professional Draw" clip art, for use with Professional Page, Pagesetter 2 and Pagestream.
 Every 500th customer will win a HP Laserjet III printer. Guaranteed
VOLUME 1 (2 DISKS).....£14.99 inc. P&P
 Volume 1 contains:
 Men, women, banners, telephones, hand & credit card symbols, speech bubbles, starbursts, plus many more...
Please make cheques or postal orders payable to "VISION GRAPHICS"
VISION GRAPHICS, 13 St. ANDREWS DRIVE, MILLWEY RISE, AXMINSTER, DEVON EX13 5EZ.

DIGITALLY MASTERED SAMPLES

IFF SOUND SAMPLE LIBRARIES

Each disk is compiled from a studio quality master and is sampled on the Amiga at twice the sample rate of P.D. sample disks. They are compatible with all P.D. and commercial tracker and sequencer programs. N.B. no. of samples in brackets

001 AFRICAN	Talking drums, Marimbas, chants etc (53)	013 GUITARS	Acoustic, Electric & Distorted etc (41)
002 INDIAN INST	Sitar, Bansuri, Chants etc (19)	014 BASS GUITARS	Slap, picked, fretless, FX etc (44)
003 INDIAN PERC	Tabla, Bayas, Rhythm Loops etc (35)	015 ANALOG BASS	Oberheim, Roland, Korg etc (22)
004 ARABIC	Ud, Saz, Bendir, Rhythm Loops etc (37)	016 DIGITAL BASS	Yamaha DX, Roland, Korg etc (28)
005 FAR EAST	Tibetan Bells, Yangqin, Koto etc (31)	017 BRASS	Sections, Saxes, Trumpets etc (24)
006 EUROPEAN	Balalaika, Choirs, Bodhran etc (34)	018 SYNTH BRASS	Analog, Digital & L.A. etc (18)
007 OCEANIA	Djerdidu, Chants, Silt Drum etc (23)	019 PIANOS	Octave Splits, with strings, FX (16)
008 AMERICAS	Kena, Berimbau, Pan Pipes etc (30)	020 STRINGS	Cello, Orch, Hls, Sections etc (21)
009 FX PERC	Power Toms, Snare & Bass, Scratch & Rap (88)	021 SYNTH STRINGS	Analog & Digital (19)
010 DRUM KIT	Bass & Snare, Hi-Hats, Cymbal & Toms (63)	022 CHOIRS	Mixed Choirs, with Bells & Synth (16)
011 ANALOG PERC	TR-808 CR-78, Loops etc (30)	023 ORGANS	Church & Electric (17)
012 LATIN PERC	Timbales, Congas, Cabasas, Cowbells etc (107)	024 BELLS	Real & Synth, with Choir & Strings (20)

Each disk is priced at £2.50, any 10 for £19.95, the Complete Collection for £49.95. In addition, Sampler owners can use our Digitally Mastered Chrome, Metal, or DAT sample Cassettes which contain most of the above samples: COO1 WORLD MUSIC COLLECTION (175)
 COO2 PERCUSSION COLLECTION (228) P&P £1 (any order) Cheques & P.O.s to:
 COO3 GUITARS AND BASSES (161) WALKABOUT MUSIC (Dept AF)
 Each Chrome £9.95, Metal £11.95, DAT £16.95 TRENNOVISSICK FARM, THE MOUNT. PAR.
 The Three Collection Package is priced at: CORNWALL PL24 2DA
 £21.95 (Chrome) £25.95 (Metal), £38.95 (DAT) Tel (0726) 813807

★ NEWS FLASH ★

The Amiga 500 & Workbench 1.3 Video

The Complete Beginners Guide

* Easy Step by Step Tutor * Professionally Produced Video
 * A Must for Every Amiga 500 User

Contents Include
 Setting Up Your System, Workbench Explained, CLI, Preferences, Utilities and Lots more....

Genesis Video Productions
 27 Hampton Street, Warwick. CV34 6HA
TEL : 0926 411259

£12.99
 INC P&P

CHEQUES, POSTAL ORDERS & CREDIT CARDS TAKEN
 TRADE ENQUIRIES WELCOME REF: 201

Matrix Software Club

Buy Your Software From Us And We'll Buy It Back!

As a member of the Matrix you can choose from our extensive lists of the latest and the popular with our absolute guarantee to buy them back. AND you don't have to pay until you've decided.

- ★ Top name games business and utility software sorry no PD or Shareware
- ★ No commitment to buy
- ★ Super fast service ★ established 1981 over 2½ thousand members.

To find out more about the unique Matrix money saving scheme call our 24 hour hotline (0920) 444224, (until 31 August then 0920 484479)

or send a large s.a.e. stating your machine (IBM/PC 3.5", Amiga, Atari ST) to: Matrix Leisure Services, Dept AMF9, Unit 4, Mill Studio Business Centre, Crane Mead, Ware, Hertfordshire SG12 9PY


The Mouse Yoke®

At last you really can take control with this ingenious device.

The Mouse Yoke® does not need a game card or special items, it uses your own mouse for smooth and accurate control, unrivalled by some yokes costing over 3 times as much. More fun and less hassle for only

£24.95

Suitable for most computers inc. portables



RC. Simulations
 Unit 1b Beehive Trading Estate, Crews Hole Road, St. George, Bristol BS5 8AY
 Tel: (0272) 550900 Fax: (0272) 411052
 If information only required, please enclose SAE quoting interest. Prices exclude p&p. Please add £1.95.
 Please allow up to 21 days for delivery.

Amiga Repairs

High Quality Repairs.	Amiga A500£42.50
Fixed Prices.	Amiga A1500/2000£75.00
90 Day Warranty on Repairs.	Amiga A590£P.O.A.
Highly Skilled Engineers.	Others£P.O.A.
7 Day (max) Turnaround.	(extra charge of £25 if disk drive needs replacing.)
Technical Helpline.	

Send your Computer complete with payment to:

ERC Unit 31, Workspace House, 28/29 Maxwell Rd, Peterborough PE2 7JE. Or Tel. **0733 390707**



AMIGA CONSOLE UNIT

Monitor console and keyboard unit. Second drive space. No hard drive restrictions. Power supply or modulator space. Keeps cables tidy. Non-magnetic aluminium. High quality texture finish. Plenty of ventilation. Installed in minutes. Designed specifically for the A500 and 500+ Colour co-ordinated.

KONTAX COMPUTERS
 11a Waldeck House
 Waldeck Road
 Maidenhead.
 SL6 8BR
0628 773212

YOUR AMIGA LIKE THIS FOR ONLY £34.95 including postage & packing.
A REAL SPACE SAVER!
 100's of satisfied customers. PLEASE DO NOT PHONE AFTER 9PM

ACCESS  VISA 

TRASH
 17 BIT, DISK 1898

DEMO


Technically, this part of *Trash* isn't all that impressive, but the mixture of fractals and vector objects looks great.

Thankfully *Trash* doesn't live up to its name. This is a megademo of above-average proportions from Digital. It consists of six varied and well-programmed parts. It doesn't start off very originally, because it begins with a ripped intro from *Shadow of the Beast* combined with a vector shape. This is the sort of thing that was being done two years ago.

Thankfully, things improve after that. One of the most impressive techniques I've seen for a long time — even though it's rather simplistic — is a series of pixels that fly in and slowly make up a line vector, which then transforms into a filled vector and moves around the screen. It happens smoothly and it's a great effect.

Another attractive effect is a fractal-drawn landscape which has a vector balloon and boat moving across it. Again it's a simplistic technique, but the combination of the two types of graphics is effective. The rest of the demo is relatively unoriginal, although it is well-programmed, but seems to end very suddenly — after the credits appear, all you see is a blank screen.

OPTIMUS PRIME

 17 BIT, DISKS 2003A,B
 (TWO DISKS)

DEMO


This attractive animated ray-traced image, consisting of dozens of objects, is a highlight of *Optimus Prime*.

For two disks, there doesn't seem to be a lot of substance, at least in terms of quantity. As for quality, it's technically impressive, although many parts are reminiscent of Crionics' excellent *Hardwired* megademo.

The techniques used range from a huge glenz vector which has 48 faces, to an animated ray-traced image, consisting of 620 balls and 22 frames of animation. The writers of the demo, Paradise, also have a dig at Anarchy's Space Cut section in their *Hardcore* demo (reviewed elsewhere on these pages) with their

PD Demo Zone



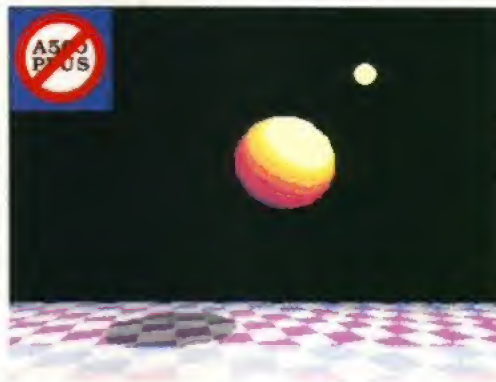
If you want to see just how far your Amiga can be stretched, demos are the ideal way to find out. Whether it's cartoon animations or glenz vectors (You what? — Ed), the Demo Zone offers it all.

Let **Tim Howell** tell you about a selection of the latest and most interesting PD demo disks.

'follow up' *Cube Cut*. The effect isn't noticeably different to Anarchy's attempt but it indicates we'll be seeing this technique in a lot of demos in the future.

Optimus Prime is a varied collection which doesn't consist of many parts, but they work well. For a change, this is entertaining and technically impressive.

HARDCORE
 START COMPUTER
 SYSTEMS, NOT PLUS COMPATIBLE

DEMO


As is the norm in space, in *Hardcore* the sun shines light on a planet, creating a shadow on a chequered floor (?!?!?)

Another megademo from prolific demo makers Anarchy, *Hardcore* isn't very innovative but there are a few variations of well-known techniques.

Things start off with an animated sun rotating around a planet. As the sun moves, it shines on the planet and a shadow appears which follows the path of the two spheres. One of the more interesting techniques is in the Space Cut section, which has two vector objects cutting into each other, with part of one vector disappearing as it cuts into the other. There's a

similar section later on with a candle circling the vectors shining light on to the objects, creating a shadow.

Matrix Dots is also interesting, having hundreds of dots which swirl around the screen, being attracted to and passing through what effectively is a black hole, before being scattered again. There are several other bits, including a large vector graphics section, featuring some animated objects, and a fast-drawing fractal section which creates an uninteresting fractal in the shape of a gingerbread man.

Hardcore features some interesting variations of tried and trusted techniques, adding up to a moderately entertaining production.

RAVE VISION
 17 BIT, DISK 2004

MUSIC


Pump up the volume! While *Rave Vision's* music doesn't sound particularly great, its presentation is very good.

This disk consists of five long dance tracks which feature some clear samples taken from well-known songs, including Altern-8 and Snap. The tracks themselves are

Continued on page 176


WHAT ARE PD DEMOS ALL ABOUT?

There are thousands of demos available for the Amiga, some good, some bad. Virtually all of them are freely distributable, meaning you can copy and distribute them without paying more than the cost of a disk.

Apart from looking and sounding great, demos play an important part in Amiga computing. They give Amiga coders an opportunity to stretch the machine in the areas of graphics and sound, utilising and discovering techniques in these areas that have never been used before. Many of

these techniques end up appearing in games, either to improve presentation or as a part of the game itself. Also, the people who put together the demos — the coders, graphic artists and musicians — can get noticed by software companies who may then employ them for commercial work.

As for the average Amiga user, demos are an ideal way of seeing what your computer is capable of doing. You can see the computer's abilities stretched without paying a lot of money, and often you'll be entertained at the same time.

The BEST Amiga PD & Shareware Titles !

If you've never tried PD before - now's the time - Order Today - We guarantee you'll be impressed !

The Best PD Games

- PG001/2 ADVENTURE SOLUTIONS Excellent !
 PG003 AIR WARRIOR Good flight Sim +
 PG006 ANTEP & SLOT CARS role playing game +
 PG008 ASI 1 Tanx, Rollerpede, Avatris +
 PG009 ASI 2 Four classic games ! Get it +
 PG010 ASI 3 Megaball & Drip Superb ! +
 PG011 ASI 4 Frogger & more games +
 PG012 ASI 5 Raid, Go Looly & Retaliator +
 PG013 ASI 6 Pacman & 4 more - cool !
 PG014 ASI 7 Moonbase, Tris, Mightworks
 PG015 ASI 8 Airace2, Hball, + more ! +
 PG016 ASI 9 Battle pong & Blizzard
 PG017 ASI 10 Escape, Pipeline, Pickout
 PG018 ASI 11 Dad, Connex, Reversal & Trippin
 PG019 ASI 12 Llamatron, Car, Powerpong
 PG020 ASI 13 Twintrix + more good games
 PG021 ATIC ATAC Really playable ! +
 PG023 BATTLEFORCE strategy war game
 PG024 BLACKJACK Good card game ! +
 PG026 CASTLE OF DOOM Excellent! Get it +
 PG027 CHINESE CHECKERS The board game +
 PG028 COLOSSUS & WORLD Fab adventures ! +
 PG029 CROSSWORD COMPILER As it says ! +
 PG032 DRAGONS CAVE D&D style game Mega-
 PG034 ETERNAL ROME Strategy & DOMINCES-
 PG036 FLASHBIER 200 levels of boulderdash !
 PG046 HACK Great text adventure-infocom style!
 PG048 HOLY GRAIL One of the best Text adventures +
 PG053 LARN A superb text adventure game +
 PG056 LASERZONE Great old 64 classic shoot em up!
 PG057 LEAPING LARRY Good platform game in Amos
 PG059 LORE OF CONQUEST space trading D&D game
 PG060 MARBLE SLIDE Puzzle game, build slides up!
 PG061 MASTER OF THE TOWN Shoot the signposts ! +
 PG062 GRIDRUNNER, Invaders & rebound - Excellent +
 PG063 MORIA Text based D&D adventure
 PG064 NAPOLEONIC WAR SIMULATOR strategy game!
 PG065 NESTOR CARD GAME Good cards game +
 PG066/67 NETHACK D&D Adventure needs 2 drives
 PG066/68 NO MANS LAND Hi tech war game-shoot em up +
 PG069 NU GAME Mega Shoot em up with good graphics
 PG070 PETERS QUEST Rescue the maiden ! +
 PG071 POM POM GUNNER Like beach-head on the 64+
 PG072 PROPERTY MARKET Become a millionaire !!!
 PG074 RETURN TO EARTH Elite space trading game! +
 PG076 SEVEN TILES Speedball type game-MEGA!
 PG078 SCUM HATERS by Brazzle Atkins +
 PG079 SEALANCE A submarine strategy game +
 PG081 SERENE II Follow up to the above game +
 PG093 TENNIS Good game (Some language) 1mg
 PG094 TRAIN CONSTRUCTION KIT make your own tracks+
 PG101 THE INSIDERS CLUB Stocks & shares game
 PG104 WONDERSOFT GAMES Golf & more games
 PG105 WIZZY QUEST Arcade adventure game +
 PG107 ZEUS A very good & popular block puzzle game +
 PG108 ASSASSINS 14 China Challenge 2 & Amiga Columns!
 PG110 SUPER SKODA CHALLENGE Nice car racegame!
 PG111 MIDDNIGHT THIEF A nice text adventure game!
 PG112 ULTIMATE CARD GAMES Cribbage, Patience etc.
 PG115/119 NEXT GENERATION TRIVIA Excellent (5+)
 PG121 ASOOS - GAMES PACK 21 games to run on the plus
 PG123 LEMMINGOIDS blast the (lemming?) Asteroids
 PG124 TOTAL WAR "Risk" type game, Mega ! +
 PG125 CARD SHARP Klondyke, Demon, Castle etc!
 PG126 SKYFLYER Superb WWII shoot em up ! +
 PG127 AIRMANIA Super platform game from Addware +
 PG128 CHEAT WORKS Stacks of new cheats
 PG129 PUGGLES Brilliant Q'bert game !
 PG130 BATTLEMENTS Hunchback game You'll love it.
 PG132 ASSASSINS 15 Excellent pack of games
 PG133 ASSASSINS 16 Wastelands, Mission X, Pacman +
 PG134 ASSASSINS 17 Tomcat, Defenda, Jetman
 PG135 ASSASSINS 18 Henry in Panic & more
 PG136 ASSASSINS 19 Growth,FrancisFreddy & more!
 PG138 BATTLE OF BRITAIN & WAR strategy war games
 PG139 DUNGEONS OF MADROJ Excellent D&D game
 PG140 MIND GAMES Stacks of fun with this !
 PG141/3 SWORD OF WARLOCK RPG adventure 2 drives
 PG144 REVENGE OF THE MUTANT CAMELS Gettiti!
 PG146 ASI GAMES 20 Four excellent games Get Em!
 PG147 QUADRIX Excellent puzzle game +
 PG148 COSMIC RACER SPACE Harner type game
 PG149 A NIGHT AT THE TOWN Witty text adventure +

Education

- PE001/5 EDUCATION SET science programs for ages 11 + +
 PE006 KIDSPAINFAB little talking colouring book-
 PE007/8 LEARN & PLAY Maths, spelling etc. 5-10 yrs +
 PE009 STORYLAND 2 Save toyland from the witch!
 PE010 TOTAL CONCEPTS ASTRONOMY book on a disk +
 PE011 TOTAL CONCEPTS DINOSAURS Book on a disk +
 PE013 SIMON & SPACE MATHS Talking maths program
 PE014 SPANISH, FRENCH, GERMAN TUTOR Transistor
 PE015 TREASURE SEARCH find the lost treasure ! +

Business

- PB001 AMICASH bank management program-
 PB002/3 ANALYTICAL Superb spreadsheet! +
 PB004 ASI LABEL PRINTERS 3 of the best-
 PB005 BANKIN control your cheque book! +
 PB006 BUSINESS CARD MAKER Nice program-
 PB007 CLERK Complete accounts package-
 PB008 DESKTOP PUBLISHER Simple to use -
 PB009 FLEXIBASE DATABASE Address keeper-
 PB010 JOURNAL Keep track of finances
 PB011 MISC BUSINESS Geotime, Grocery list, Calc
 PB012 OBASE Simple 8 field database
 PB013 QED Simple & effective text ed-
 PB014 RIM DATABASE Fully relational !!!
 PB015 TEXTPLUS V3.00 THE BEST !!!!! +
 PB016 UEDIT LATEST RELEASE Good TextEd+
 PB017 VISICAL SPREADSHEET Simple to use-
 PB019 600 LETTERS contracts, letters + more-
 PB020 TEXT ENGINE 3.0 Good simple Wordpro-
 PB021 AMIBASE PRO. Powerful easy to use Dbase +
 PB022 BBASE II A fast & easy to use +
 PB023 FORMS REALLY UNLIMITED form creation prog-
 PB024 LAST WILL & TESTAMENTS Just in case ! +

Utilities & Applications

- PU002 A-GENE Good genealogy program +
 PU003 A68K 68000 Assembler program
 PU004/a64 A64 EMULATOR NEW VERSION 2.0 (2)
 PU005 AMATEUR RADIO I Interest to radio hams +
 PU006 ANIMATED POINTER PACK Moving pointers!
 PU012 ASI GRAFFIX UTILS graphics converters etc-
 PU013 ASI BOOT UTILITIES bootblock utilities +
 PU015 BIORYTHMS, STARSHART 2 Good programs+
 PU017/20 C MANUAL II (4) Learn to program !!!
 PU021 C-LIGHT RAY TRACER Good program-
 PU022 CHEMESTHETICS molecule displayer +
 PU023 CHET SOLACE UTILS 26 utilities
 PU036 CURSOR BASIC COMPILER Just what you need!-
 PU037 D-COPY The best PD disk copier +
 PU039 DBW The forerunner to Skulpt 3D !!! +
 PU040 DEMOLISHER 168 UTILITIES - MEGA ! +
 PU041/43 DESKBENCH alternative workbench (3)
 PU045 DIRECT ACTION Edit animation sequences etc
 PU047 DOPE INTRODUCER Make your own intros
 PU048 DYNAMITE FONTS II CutNPaste fontscreens
 PU049 DYNAMITE FONTS More CutNPaste Fonts
 PU055 ELECTROCAD DEMO circuit designer +
 PU056 EXILE FONTS Excellent CnP fonts-
 PU058 FONTS AND RAM MANAGER BIG video fonts-
 PU059 FONTS & SURFACES Backdrops & fonts-
 PU061 GENESIS DEMO fractal generator really good!
 PU062 GRAPHICS UTILITIES Various misc. programs-
 PU063 HAMLAB Convert VGA PC to IFF/HAM +
 PU064 HARDDRIVE UTILS MRBackup & FixDisk & more +
 PU065 ICONMANIA Program icons & more ! +
 PU066 ICONS Crammed packed with icons ! +
 PU067 IMPLORDER V4.0 Megacrunching Util-
 PU069 JAZZBENCH Alternative Wb for 1.2/3 users
 PU071 JR COMM 1.02 Modern users comms package
 PU072 METALLION UTILS Font Editors & more util-
 PU073/76 KING JAMES BIBLE Old&New testaments (4)-
 PU077 LANGUAGES DISK FORT, Modula 2, X-Lisp Logo-
 PU078 M-CAD Hires design package. Excellent +
 PU079 MACVIEW, DRAW, ROTATE 3 unusual progs. Good!
 PU080 MESSY-SID Read/Write PC Files. Brilliant!-
 PU083 MORSE PROGRAMS for the radio hams
 PU084 HARDWARE MOOS Docs disk for hardware hacks!
 PU086/7 NORTH C 1.3 (2) Complete C compiler & libs-
 PU089 PASCAL COMPILER needs good CLI knowledge-
 PU091 PENDLE 200 MEGAUTILS An essential collection-
 PU095 PRINTER DRIVER GENERATOR new drivers-
 PU096 PRINTER DRIVER UTILITIES Various util- etc.
 PU097 PRINT STUDIO II 25 Prints pics & text etc +
 PU101 QUICKBENCH Instant WB uses RAD. very clever!
 PU102 RAZOR 1911 Excellent collection of utilities
 PU108 ROT A simple 3D drawing package Very popular +
 PU109/10 (2 disk) Structured clipart for Ppage +
 PU112/3 SOMETHING FOR NOTHING Video Utilis&Fons-
 PU114 SOZOBAN C similar to North C compiler +
 PU115 ST EMULATOR Run Atari ST software !!! 2 Drives
 PU116 SUPER C: DISK Collector of C commands
 PU117 SUPERKILLERS Virus Killers! You need this! +
 PU121/2 TV GRAPHICS Dpaint backdrops&Fons-
 PU124 ULTIMATE ICONS loonmaster, loonlab, +
 PU128 VECTOR DESIGNER Comprehensive program
 PU129/30 VIDEO APPLICATIONS Video utilities-
 PU132/3 WINDOWS BENCH A Windows 3/WB2 lookalike
 PU134 WORKBENCH HACKS amusing stuff ! +
 PU136 ZX SPECTRUM EMULATOR Now with sound +
 PU138 LAST HOPE Recover lost files
 PU139 GRAPHICS CONVERTERS PC-to-Amiga gfs Converter
 PU140 LITTLEBENCH File copier & util- Dos2 only
 PU141/2 TAROT II Learn about your stars !-
 PU143 OPTIUTILS I Crammed full ! Get it!
 PU144 OPTIUTILS 2 Get this disk ! +
 PU145 OPTICOMMS 1 Nccom 1 521 Lharica, Zoo Arc-
 PU149 ELECTRONIC PROTOTYPYER Veroboard designer
 PU150 FOOTBALL LEAGUE Update league positions
 PU151 BROTHERHOOD UTILS I Dooxy, Scenery, Qed +
 PU152/66 CLIPART SET. 15 Disks of the BEST-
 PU167 MULTI-PLOT data plotting program!
 PU168/a/b RAY-DANCE Demo version RayTracer

- PU169 GELIGNITE FONTS CutNPaste fonts-
 PU170 P-SUITE Disk magazine maker +
 PU171 OPTICOMMS 2 Nccom 2 & more +

Animations

- PA001 AEGIS ANIMATIONS 3 classics !
 PA032 BONGO ANIMATION Ray Traced Anim-
 PA033 BUSY BEE Cute animation of a freaky bee
 PA036 CX1 SPACESHIP Excellent RT anim +
 PA038 DRAGONS LAIR TIME WARP Cartoon +
 PA039 ERIC-S AMY VS WALKER Cute & sexy! 1.5M
 PA040 ERIC-S BATMAN vs JOKER Very funny!!! +
 PA041 ERIC-S COTOTE 2 A cooker!! 2M
 PA043 ERIC-S MORE AEROTOONS Very witty !!! +
 PA044 ERIC-S SHUTTLECOCK plays with satellite.
 PA045 ERIC-S STEALTHY II Mig-29 vs Stealthy ! +
 PA049 HAPPY ANIMATIONS HappyMan & more
 PA053/4 LIGHT CYCLES (2) Tron animation +
 PA056 MAGICIAN II Good RT animation +
 PA080 NEWTONS CRADLE RT animation +
 PA065/68 REAL 3D (4) Superb of the program +
 PA072 THE JUGGLER A classic amiga demo!
 PA074 THE WALKER vs The Helicopter - Mega ! +
 PA075 THE WALKER vs A2000 A classic ! +
 PA080 LEMMINGS ANIMATION Very funny indeed +
 PA083 MORE CLASSY ANIMS The Bionic Binbo ! +
 PA084 JAMES POND v LEMMINGS I like it !!! +
 PA085 JET ANIMATION Fractal Flight but better! +
 PA086 FRACTAL ANIMATION full screen lol lying anim!
 PA087 TEA POT ANIMATION Very good RT anim
 PA088/9 MR POTATO HEAD The circus act!! (2)

Tobias Richter's Agatron

We stock the full agatron range here's the best:
 AGA21 ENTERPRISE Docking with Space station-
 AGA22 ENTERPRISE APPROCHING Very good indeed +
 AGA23 FLEET MANOEUVRE Stunning ! 1m +
 AGA26 SHIP ROCKING & enterprise leaves dock. 1m +
 AGA28 SHUTTLE & ENTERPRISE Fabulous ! 1M +
 AGA36 BIRD OF PREY an excellent animation 1m +
 AGATRON SLIDESHOWS 1, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 15 Are now available, please order by number prefixed by 'AGS'

PowerAnims

- PP001/2 ANTI LEMMINGS (2) This is Brilliant! 2M
 PP004/7 AUTOMATED LIGHT (4) Battiestar galactic! 3M
 PP011/12 DATING GAME (2) Very witty!, Get it 3.5M!
 PP016 GULF WAR Another ES production! Good 2M!
 PP018/20 LOST IN SPACE (3) From the TV series 2M
 PP025/27 STATION AT KHARIN (3) Incredible 2M demo
 PP040/43 AT THE MOVIES II (4) Hilarious 11mg-3mg
 PP044/45 AMY V WALKER II (2) Another witty ES demo 3M

Demos

- PD016 BUDBRAIN II Megaemo megadem! +
 PD020 CRONICNS THE GAGDEMO maddona demo & more
 PD021 CRONICNS NEVERWHERE Real world demo
 PD033 DEVILS NO REALITY multiplatform demo !-
 PD046 IRAQ DEMO Amusing demo with Saddam
 PD068 PHENOMENA ENIGMA Absolutely brilliant!
 PD069 PHENOMENA JOYRIDE Very good demo ! +
 PD076 PLASMUTEX Omed plasma & great music +
 PD077 PMC ALPHA OMEGA Superb vector demo-
 PD078 PUGGS IN SPACE Witty cartoon demo
 PD094 SCOOPEX MENTAL HANGOVER A classic-
 PD097 SILENTS GLOBAL TRASH Incredible!!-
 PD098 SILENTS ICE Brilliant Fx & music!
 PD108 TOMSOFT TRIP TO MARS 3D trip to mars!
 PD109 TOMSOFT VIRTUAL WORLDS An absolute Epic !
 PD119 REBELS OUTLAND Good demo from them !
 PD123 IBB MANGA Nice Japanese style cartoons
 PD125 RAY OF HOPE 2 Great I good music & graphics!
 PD129 RAZOR 1911 VOYAGE Very good fx and music
 PD130/34 ALCATRAZ ODDSSEY Awesome !!! Get this !!!
 PD135/6 CRONICNS HARDWIRED Very impressive demo!!!
 PD138 SEENING IS BELIEVING Excellent demo & music

Music Disks

- PM010 AMEGA PARTY WINNERS Four WICKED songs+
 PM012 AMIGADEUS CLASSICAL Eine Kleiner etc. +
 PM014 BANGING RAVES kickin remix of house
 PM016 BEATLES SONIX Nice music +
 PM020/21 BRUNOS MUSIC BOX II Jazzfunk. Get it ! +
 PM022/23 CLASSICAL MUSIC Bach, Handel etc +
 PM030/34 DIGITAL CONCERTS 2-6 Excellent house/dance
 PM047/48 CEREBRAL DELIGHTS (2) Excellent!
 PM059 MANIACS OF NOISE This is brilliant!
 PM065 PHENOMENA MUSIC DREAMS I Get this !-
 PM066 PHENOMENA MUSIC DREAMS II And this !-
 PM069 RAZOR FACE ANOTHER DAY very good !!!
 PM070 RHAPSODY IN BLUE tracked by Rob Baxter! 1M
 PM071/72 SILENTS BLUES MUSIC (2) Music & game-
 PM074 SOUND OF SILENTS Just get this its mega!

- PM079 TECHNOTRONIX REMIX Good remixes etc
 PM082a/b2b VIVALDI - FOUR SEASONS (2) V.Good !-
 PM087/88 HIS MASTERS NOISE by Mahoney & Kajkus
 PM090/91 MOZART HORN CONCERTOS 4 by H.Gannon +
 PM093 UTAH SAINTS REMIX by Tony Hilton!
 PM095 STAIRWAY TO HEAVEN Rediton of the song-
 PM098 ERASURE MIX Remix of erasures top songs
 PM100/103 MANIC RAVES II Fantastic rave stuff !-
 PM104 500 THINGS COMEBACK 4 great rave type tracks-
 PM105/6 KEFRENS MEGAMIX Fabulous dance music-
 PM112 TECHOMANIA II 8 essential hardcore tunes-
 PM113 PROTON GATES OF TIME 8 good pieces of music-
 PM114 UPROAR SPLIT BEAVER MIX rave megamix +
 PM115a/b CHROME Brilliant music disks ! +

Slideshows

- PS002 ADVANCE HAM Really stunning !-
 PS005 ASTRONOMY SLIDE very impressive !
 PS013 BORN TO BE FREE wild animals +
 PS014/15 BUTTERFLIES (2) High quality !-
 PS019 COLOURCYCLES Near fx ! +
 PS023 DEMONS III very good amiga gfs
 PS025/26 DIVINE VISIONS (2) Mythological-
 PS030 FRAXION FUTURE VISION fantasy pics-
 PS033 GERMAN RAY TRACE Superb See these !-
 PS052 NAGEL Hires pics of girls Nice ! +
 PS069/70 SILENTS/GH 42 (2) This is superb!-
 PS072 SUPER HAM CARS This is a must-Mega!-
 PS086 SONIX 5 Super D-HAM 4096 colour pics-
 PS087 ALTERED DECEPTIONS Chris hills super work-
 PS088 EVOLUTION SLIDE Excellent educational pics-
 PS089 FRACTALGEN Incredible fractals etc +
 PS091/2 FRACTAL MOUNTAINS Excellent stuff!-
 PS093 VANISH 3D Awesome 3d ray traced -

Music Making & MIDI Utilities

- PT001 ALGORHYTHMS Create weird midi tunes
 PT002 ART OF MED Excellent !-
 PT004 ASI AUDIO MAGIC 2 good compilation
 PT005 CASIO CZ EDITOR 250 patches ! +
 PT006 DELUXE MUSIC DATA Midi music
 PT009 K1 IFF SAMPLES Fabulous samples +
 PT013 MED 3.2 Excellent music seq ! +
 PT014 MED MUSIC DISK As it says !-
 PT015 MIDI DISK Various midi stuff +
 PT016 NOISETRACKER 4 channel sequencer
 PT018 PERFECTSOUND SAMPLER Nice sample editor
 PT019 ROLAND D110 - S220 Converter program
 PT020 ST-01 - ST-10 Samples - Ring for details
 PT021 SOUNDTRACKER 2.6 Excellent +
 PT024 ST-80 BEAST SAMPLES very nice +
 PT025/6/7/8 ST-90-93 SAMPLES DISKS Studio quality-
 PT030 YAMAHA DX7 VOICE SORTER
 PT031/2/3 ST-87 - 89 3 disk full !-
 PT034/5 ST-97 & 98 More samples !-
 PT036 SAMPLE MAKER create interesting samples
 PT037 PROTRACKER 2.0 The bees Knees !!!
 PT038 YAMAHA DX100,TX81Z, DX27,DX11 & FB01 editors

Amos Games & Utils

- APD036 - AMOS UPATER Latest updater !!!
 APD062 - APCADIA Popular breakout game
 APD085 REVERSI - SNAKES & LADDERS
 APD096 - PAIR IT Match the cards to make a pair
 APD103/4 - PICK UP A PUZZLE Solve jigsaw puzzles
 APD110 - CROSSFIRE Nice game, for the kids !
 APD115 - BALLOONACY Bomb the buildings !
 APD130 - THE WOODEN BALL Weird game ??
 APD137 - TILE TRAIL puzzle game
 APD148 - DEMOLITION MISSION bomber game
 APD176 - DATABASE MASTER V2.0 Good database
 APD180/1 - DUNGEON DELVER maze game - Good!
 APD229 - AMOS MULTIPAIN Amos paint program!
 APD230 - AMOS ASTEROIDS 4 types of asteroids!!
 APD237 - SHAPES Excellent kids game!
 APD257 - CASSETTE LABELLER + MIXED SOURCE
 APD271 - WIZARDS DOMAIN graphical adventure
 APD284 - AMOSAGRAM anagram solving program
 APD292 - WAR OF THE FOUR graphic adventure game
 APD293 - GRAND PRIZ SIMULATOR Very popular
 APD314 - BLACKJACK TRAINER Good blackjack game!
 APD318 - BOING Get Herbert back home !
 APD325 - HANGMAN V2 Hangman game with editor!
 APD326 - HYPERBALL New fast version of woodenball
 APD329 - FRUIT MACHINE Good for the gamblers !
 APD333 - AMERICAN FOOTBALL Football coach game!
 APD334 - SNAKE IN THE GRASS Nice little platform
 APD340 - KARATE WORM Jump over worms etc ! +
 APD343 - SAVE THE TREES Good game for kids
 APD347 - NOTEBOOK & SHOPPING List Easy to use !
 APD362 - SQUAT'S REVENGE Operation wot game!
 APD363 - FAMILY HISTORY DATABASE Latest version!
 APD367 - WEIRD IN EDGEWAYS Circuit board puzzler
 APD373 - COMPILER 1.34 UPDATE Amos compiler !

Remember: These disks are the BEST you can get !!!!!

VALLY PD

UF8 PO BOX 15, PETERLEE
 CO. DURHAM SR8 1NZ
 0 9 1 5 8 7 1 1 9 5

ORDERING MADE EASY

BY POST: send your Name, Address & Order details with a Cheque / PO / IMO to any of the 4 companies listed
 BY PHONE: Call any of the 4 Distributors listed & we'll have your order sent out to you faster than you think !
 PD PRICES: 1 - 5 disks £2.00 per disk • 6 - 25 disks £1.25 per disk • 26 or more disk are still only 99p per disk !
 POST & PACKING: UK - 50p • UK 'Recorded Delivery' £1.00 • Europe +25p per disk • Rest of World +50p per disk

main Distributors

ot the imitators!

New .. New .. Amiga PD & Shareware Titles .. New

The latest and the Best! Games, Utilities & Demos!

Below is a listing of the latest PD! all programs in this advert carry the UPD 'seal of approval' so you can buy with confidence - knowing you will get a quality product!

Utilities

- PU172 WORDPOWER Solve Anagrams/Crosswords+
- PU173 LSD UTILITIES 23 new utils!
- PU174 ASTRO 22 professional astrology
- PU175 GELIGNITE FONTS II Excellent IFF fonts+
- PU176 GELIGNITE FONTS III More of above!!+
- PU177/8 BENCHMASTER Windowsbench & Messysid!
- PU180 RICHARD SMEDLEY COMP VAT checker + more
- PU181 RENDER V1 3D Raytrace shading program
- PU182 STOKK ANALYST Technical analysis program+
- PU183 AMYGEN Excellent genealogy program+
- PU184 PROCALC V1.0 professional calculator!
- PU185/8 COSMOPOLITAN FONTS (4) Packed with fonts+
- PU189 TRONIK VIRUS KILLERS 21 virus killers & docs+
- PU190 BENCHWORK 1.0 workbench alternative
- PU191 LANDBUILDER fractal land generator+
- PU192 SID 2 Get this! directory util !!! MEGA!
- PU193 PLUS 8 Mandelbroom showiz arq additnu
- PU194 PLUS 9 Mouseblinker Nuke Back&front
- PU195 PLUS 10 PopUp Filesearch Dcopy2 Fbank
- PU196 PLUS 11 Labelmaker CalcKey Multinstall
- PU197 MOBED 2 Dpaint for Sprites & boobs+
- PU198 VIDEO WIPES Masks & fades Dpaint 3/4+
- PU199 TDM SLIDESHOW GENERATOR wipe/fade pics
- PU200 LITTLEBENCH 1.3 Now for 1.3 owners !!
- PU201 MALICE FONTS Excellent tiny fonts for Dpaint+
- PU202 CYCLOPS Weird Plasma/fractal creator !+
- PU203 SCOPE 184 utils & clips for Ppage
- PU204 GATOR GRAPHICS Dpaint Tutorial disk+
- PU205 PC TASK Wicked PC Emulator Get it !!!+
- PU206 MSDOS PROGS PC Shareware Progs for PCTask +

PowerAnims

- PP046 SWEET REVENGE Coyote vs Roadrunner ! 1.5mg+
- PP047 GOTTA GO Crazy dog walks his master? 1.5mg +
- PP048/9 A DAY AT THE BEACH Stunning 12 Mg
- PP050 UNSPORTING Wicked aerotoon from Schwartz+ 2M

Demos & Music

- PD141 WILDFIRE MEGADEMO great House & dance music
- PD143 CAT Silents & Cronics demo for cat club +
- PD145 NECRONOMIA Excellent demo, !! bit freaky ! +
- PD146 DOS Excellent vectors & music demo +
- PD147 HARDCORE Anarchy's cool new demo
- PD148 CHAMELEON A new vector world demo.
- PD149 MAGNETIC DREAMS Excellent new demo
- PD150 TSL PARTY WINNERS Music & gfx - Superb
- PD151 TERMINATOR 3 Interesting rpoof of the movie
- PD152 HUMAN TARGET Wicked Rave/vector demo Get it!
- PD153 DEFORMATION with the men from the MTV demo
- PD154 GET FROGGED You'll love this, just get it !!
- PD155 MULTICA Wicked demo from andromeda Get it !!!
- PD156/7 REAL EMPATHY Good Demo & Fab game inc. !
- PD158 DIGITAL PUNISHER Very good Bitter/Zoom Fx
- PM116 LIONS GREATEST SHOW ON EARTH Very good!
- PM117 MUZAK OF THE WORLD original Amiga music!
- PM118 TSP RIPPED MUSIC 1 Some good tracks+
- PM119 TSP RIPPED MUSIC 2 More of above+
- PM120 IDEAL MODE AEROSOL EP Go raving mad +
- PM121 NIGHTBREED MUSIC DEMO 8 Rave music demo +
- PM122/4 PLAYSID 2 (3) You must get this !!!! +
- PM125 PLAYSID Inc.RobHubbard. ManiacsOfNoise +
- PM126/9 LSD MUSIC PACK (4)A Excellent music collection+
- PM130/2 BACH BRANDEBURG CONCERTOS 1 to 6 +
- PM133 DANCE TRANCE Rave tracks played amiga style+
- PM134/5 SOUNDS OF SCIENCE (2) Absolutely Brilliant+
- PM136 WICKED HOUSE Superb rave music by origin.
- PM137 KEFRENS MEGAMIX !! Very good !! dance music +
- PM138 EROTICA 6 Mega music ! inc crockets theme ! +
- PM139/40 SPRING MELODIES (2) 9 tracks from anarchy
- PM141 HARDLINE MUSIC 7 groovy synth-style tracks +
- PM142 FRAGTAL MUSIC Very well presented !! get it!
- PM143 FALCONS MUSICBOX 2 Average music disk+

Slideshows

- PS094 INVISIBLE WORLD !! Yuk Bedbugs And more !+
- PS095 TOTAL CONCEPTS SLIDE Pics of forthcoming CLR+
- PS096/97 HALLOWEEN Just in, very impressive slideshow!

Making Music

- PT039 SUPER SOUND 2 Add reverb & Fix to samples+

Games

- PT040 OCTAMED V1 8 channel MED sequencer!+
- PT041 NOISEPLAYER 4.0 Multitasking module player+
- PT042 START IFF SAMPLES Superb ! Get this disk!!!!
- PG150 E.-TYPE excellent asteroids clone
- PG151 FLAG CATCHER Avoid the bombs !!
- PG152 TETREN A very nice Tetris clone
- PG153 WAR very good strategy/arcade game+
- PG154 NUMPTY & ALIEN INVADERS Manic miner game!
- PG155 ASI GAMES 21 Zeus Tetrix & more +
- PG156 ASI GAMES 22 Lemmingoids, Mouthman & more
- PG157 ASI GAMES 23 Smash&Rip,BIP,Interferon(DrMario)+
- PG158 PORK A PORK Pop the balloons & stop the foxes+
- PG159 MR BRICK Great 'mario brothers' game
- PG160 ENTERTAINMENT+ 1 Klondyke Hball & more+
- PG161 ENTERTAINMENT+ 2 Zerg BounceNbob Frogger +
- PG162 ENTERTAINMENT+ 3 spacewars, squamble & more
- PG163 ENTERTAINMENT+ 4 Zon Hanoi Yalp & more +
- PG164 GAME SQUAD 2.3 joystick tester & 268 cheats+
- PG165 SOLID SQUAD Nice little sving game
- PG166 RAID III Wicked new shootemup !!!! +
- PG167 SERENE III From the author of Raid !!!+

Education

- PE016 COLOUR THE ALPHABET learn letters & colours! +
- PE018 TYPING TUTOR. Superspell Budget & Mscalender! +

Business

- PB025 EDWORD Brand new wordpro - V.good +
- PB026 AGRAPH Superb Program graphing data +

NEW Late Additions NEW

- CYBERTEK GAMES DISKS 1-13 Now in stock Call 4 details
- G911-G915 FINAL WHISTLE DATA (5 DISKS / £2.00 EACH)
- BOUNCER Remix of the rave song by Kicks like a mule!
- MULTIDOS New ! Combines SID2 & Messydos(PC+AMIGA)
- ASI HANDYTOOLS 3 A mega compilation of essential utils
- FRED FISH CATALOGUE Now contains FISH 1 - 670 !!! +
- WHATSISSNAME Great new puzzle game just in
- ASI GAMES 24 Just wait and see this its fabulous !!! +

PD STILL FROM ONLY

99p

PER DISK
SO ORDER NOW!

Pocket Power Only £2.99 each!

We have compiled a selection of the BEST PP titles!

- POW001 FOOTBALL MANAGER Football sim.
- POW002 MOUSETRAP Cutesey platform fun
- POW003 QUANTOX+ Fair shootemup
- POW004 BATTLEVALLEY Strategy shootemup
- POW005 JUMPER+ Simple Flight Sim.
- POW006 SLAYER Good mindles blast
- POW007 STEEL Explore&Blas+ Good Gfx
- POW008 ARGPELIGOS Classic Puzzle game
- POW009 BAD COMPANY Great spacecharter Clone
- POW010 EYE OF HORRIS Platform game
- POW011 PROSPECTOR Tricky Maze game
- POW012 STARBLAZE+ Star war type game
- POW013 STARGOOSE+ Excellent ShootEmUp
- POW014 STAR BAY Defender clone - Get it!
- POW015 CHICAGO 90 Isometric 3D car chase
- POW016 DEMOLITION Average Breakout game
- POW017 DOGS OF WAR+ IsotWarriors type - good!
- POW018 HATE+ Isometric 3D ShootEmUp - Great!
- POW019 BATTLESHIPS 1-2 Player Classic
- POW020 MANHATTAN DEALERS+ Great BeatEmUp game

THESE GAMES ARE WELL WORTH CHECKING OUT !!!!

New .. The Central Licenseware Register .. New

Commercial Quality programs at a PD price!



CLE01 TOTAL CONCEPTS DINOSAURS Have your children ever wanted to know about the ancient world of the dinosaur? Well so, then this is for you - an interactive encyclopedia covering jurassic, triassic & creataceous periods complete with pictures and text. This program is plus compatible and comes on 2 Disks. £4.50 +



CLE02 TOTAL CONCEPTS GEOLOGY This title is the second in the series of quality programs by Chris Hill, using the GoldDisk Hyperbook system, and will you and your children an interactive guided tour through the incredible world volcanos, rocks and minerals. The program is very simple to use just point and click. Geology is on 2 Disks £4.50 +



CLE03 TOTAL CONCEPTS SOLAR SYSTEM The latest title in this series invites you to learn all about the solar system, with information on all of the planets and with some of the pictures supplied and authorised by Nasa, this makes an excellent educational package for children. This title is so big it is supplied on Three disks and is priced at £4.99. +



CLE04 KIDDIES COLOURING PAD This is a colouring book for young children and they wont get in a mess using it! It is very simple to use with full instructions with the program. Simply pick a picture and colour it in! Includes a save option, so once you have coloured your picture you can save it out to a disk to print out using Dpaint etc. Price £3.50 +



CLE05 A-CHORD So you want become the next Eric Clapton then this is just what you need! This program will teach you nearly every single guitar chord, including fingering techniques, it will even play the chords using the amigas built in sound chip. A must for every single guitar player beginner and experts alike. Price £3.50 +



SMOOTH SCROLLING TITLES
created with VIDEO TITLES



CLU01 VIDEO TITLER is a program that will allow you to create smooth scrolling video titles with the greatest of ease, programmed by Darren McCaul, whose Starbase is due out soon, the program lets you use any amiga bitmap font, of which several are supplied, and scroll in any colour vertically up the screen. Essential for all video enthusiasts. £3.50 +



CLU02 FISH INDEXER If you have ever wanted a program, but have never been able to find it ANYWHERE chances are it's probably in the fish library, but rather than having to rake through thousands of lines of text, why not use the Fish Indexer, a superb database of the entire Fred Fish library, with full search, print and more. Price £3.50+



CLU03 TYPING TUTOR A program here now for all you budding office clerks, learning to type can be a real pain, lessons cost a fortune, but not when you have an amiga! This program will take you step by step through a full typing course, showing where to place your fingers and lots more. Before long you'll be able to type as fast as I can! Price £3.50 +



CLG01 NORRIS A machine code programmed platform adventure starring Norris, help him journey his way through level after level battling beastly beasts and monstrous medieval men! This game has a great atmosphere, and is immensely playable, it will have you addicted in minutes! Price £3.50



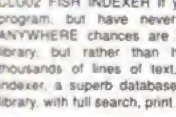
CLG02 DARK THINGS Another excellent quality platform game along similar lines to MarioLand, you know - scroly along, then run & jump kind of thing, so your kids will love it, we did, and we're just a bunch of kids at heart! Price £3.50 +



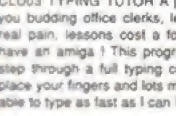
CLG03 PHASE 2 Superb sideways scrolling shoot em up, along similar lines to the all time classic defender, anyway you control a photon powered XZ-1B fighter and you must battle with the forces of evil! The gameplay is brilliant and the scrolling and animation silky smooth, if you want my advice - buy it. Price £3.50 +



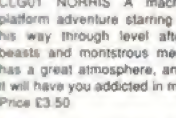
CLG04 X-SYSTEM This is a corker a superb multilevel shootemup, you know the type, baist you way through hoard after hoard of aliens and end of level guardians, it even has a built in platform game thrown into he bargain, programmed by the BadBoyz this is one of the best shootemups about, get it and prepare to be impressed. price £3.50 +



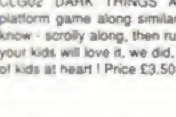
CLG05 TRUCKIN ON IT This is a new version of a PD game that was originally bugged to hell, the programmer has taken all the main elements of the game and re-programmed it in C, so its now fully playable truck driving simulation and management program. TO is a must for all you truckers out there and is supplied on 2 disks Priced at just £4.50 +



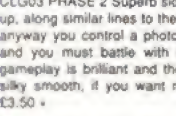
CLG06 OBLITERATION This game has had many a rave review, programmed in machine coded its fast & furious arcade action as you work your way thru this asteroid infested game, blasting wave after wave of rocks, this game is utterly addictive and includes a bonus game MAD BOMBER which is as addictive as the main game. A must for all gamers! Price £3.50



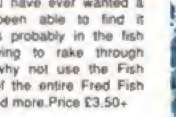
CLG07 WILLYS WATER WORKS If its puzzle games you like then we've got just what you want, you control willy, a plumber, whose job it is to built a pipeline using the pipes he has before the water starts to flow, and this certainly isnt as easy as it sounds! A superb little game that will have you and your kids(?) entertained for hours. £3.50



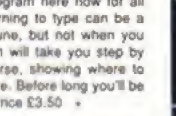
CLG08 DRAGON TILES This is an excellent puzzle game you have a huge stack of different icons which, using the mouse you must match up to make a level disappear, sounds boring but its actually very addictive, I was playing it for hours! A vast improvement on the PD version, Dragon tiles is well worth anyones couple of quid! Price £3.50 +




CLG09 MOTOR DUEL Now this is just fabulous! Martin would not leave this game alone for days, its a 3D car racing-chasing-shooting game, with guided missiles and lasers, its by the same programmer as the PD game Battlecars, but its a lot better, play the computer (Mega difficult) or link up to anoth amiga for 1 on 1 action! Price £3.50 +




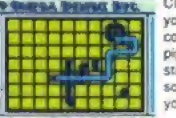
LOOK FOR THE CLR LOGO (RIGHT) FOR QUALITY AMIGA LICENSEWARE





AUTHORISED CLR DISTRIBUTORS ARE: NBS, START, VALLY, BLITTERCHIPS, 17 BIT, VIRUS FREE, LOAD CREST, PD SOFT, GOLDSTAR & ESSEX COMPUTER SYSTEMS.














PROGRAMMERS REQUIRED!

Written a good game, utility or educational program? Why not send it in for evaluation? If it's really good, you could soon be earning BIG money!

BUT YOU DONT HAVE / Yes we do! We stock Fred Fish disks 1 - 670 (plus more as they arrive), Amos PD, Amigos, T-Bag, Scope and other popular libraries - so if you dont see the program you want here PLEASE CALL US! We can almost guarantee we will have it!

NBS

U/F8 TCHAIN LANE NEWPORT
ISLE OF WIGHT PO30 5QA
0 9 8 3 5 2 9 5 9 4



SWEET REVENGE

NBS, DISK P064,
REQUIRES 1.5MB

ANIM

Demo group Decay return after last month's brilliant *Get Frogged*, with yet another quality animation. This one's based on the famous Road Runner cartoons and is a longer sequence than the animation we looked at last time.



"Ah, there's that bird coming now," thinks Wile E as he spots Road Runner zooming down the highway.

After the familiar Loony Toons intro, the animation moves on to the main act which features the Road Runner and his arch enemy, Wile E Coyote. In contrast to the cartoons though, this time Wile E actually manages to catch the normally evasive Road Runner.

After stalking the bird as he zooms down the road, Wile E shoots him to pieces with his trusty machine gun (in typically unrealistic cartoon-style fashion, I hasten to add). After Road Runner has been blasted to bits, his remains are put into a sack



Wile E fires a round of bullets into Road Runner's body, getting his *Sweet Revenge* at long last.

which Wile E drops from the top of a cliff. Then, just to make sure the bird is well and truly finished, the coyote drops a one ton weight on top of where Road Runner landed.

Technically, the animation is very good. *Sweet Revenge* moves smoothly and there are cartoon-style sound effects played simultaneously with the action. It's very professionally done, and if Decay used some imagination to create their own cartoon characters they could soon, perhaps, even rival Eric Schwartz.



And even though Road Runner's bacon is well and truly fried, Wile E drops a weight on him to make sure.

AMIGA FORMAT

176

SEPTEMBER 1992

uninspiring, but if you're into this type of music (and I'm not) then you could get something out of it.

What makes this disk different from many other music disks around is its presentation. A CD player and amplifier have been drawn on-screen, which isn't new, but the number of options open to you is. By moving a cursor around the screen, you can not only select different tracks but you can do heaps of other things as well, including switching the balance so you can only hear music out of either the left or right speaker, adjusting the speed at which the music is played and so on.

While the music is dance-orientated and not brilliant, the interesting presentation adds to the disk.

MAGNETIC DREAMS

START COMPUTER SYSTEMS

DEMO



While this part of *Magnetic Dreams* looks suspiciously like a football, it is actually a series of circular vectors.

Digital make another appearance in this section, this time with *Magnetic Dreams*. It's another collection of familiar techniques which have been adapted to try and make them more interesting.

One of these sections features a large round object, comprising several vector circles, which end up looking a lot like a glenz vector soccer ball. It all moves smoothly and looks impressive, although the colours are a bit bland.

Another section has a number of multi-coloured filled vector objects, ranging from simple ones such as

cones and cylinders (which make use of circle vectors) to more complicated objects such as Grand Prix cars and fighter planes which consist of several vectors. Some of them are also animated. Not original, but still well done. The only other section worthy of note is called *Shade Bobs*, which has dozens of different coloured and colour-cycling bobs rapidly appearing on-screen. The overall effect is much like a plasma fractal, but these are drawn much more quickly.

All-in-all, it's a mixed collection of innovative and not-so-innovative techniques which add up to a technically-adept but uninspiring production.

TWO TOMS - TAKE A CHANCE ON ME

17 BIT, DISK 2049 (TWO DISKS)
REQUIRES TWO DISK DRIVES

MUSIC



To mark Erasure's recent chart success, the Two Toms celebrate by drawing a lizard. Why, I don't know.

Fresh from a run of several weeks at number one, Erasure's Abba-esque EP makes it on to floppy disk (well the main track, *Take A Chance On Me* does) courtesy of those superior samplers, Two Toms.

Considering the single was so popular, it could go down well with Amiga owners who want to listen to Erasure with the help of their Amigas. As seems to be the norm with the Two Tom's releases, the track comes on two disks and the sample is loaded in as it is played.

You also need two disk drives if you want to listen to the second disk of the song. As for sound quality, it's as good as ever, with the samples sounding clear and distinct, with no distortion. While the music is playing, there's an 'interesting' screen displayed, featuring a large lizard. Why a lizard, I don't know. Mind you, a lot of the Two Tom's graphics don't have anything to do with the music which is playing.

Unfortunately, while the sound quality is very good, the rather boring screen display makes this production of limited long-term interest unless you really like Erasure's Abba tribute. I wonder if the other three tracks on the EP will be converted?

TOP TEN DEMOS OF THE MONTH

One good way of sussing out what demos are worth buying is to see what the top-selling demos of the moment are, so here's a look ...

17 BIT SOFTWARE

1.	Hardwired	1562 A+B
2.	Oddysey	1574 A,B,C,D,E
3.	CAT Computer Club	1781
4.	Andromeda DOS	1883
5.	Punisher Demo	1599
6.	Voyager (Razor 911)	1604
7.	Anarchy Demo	1893
8.	Virtual Worlds	1178
9.	Phenomena Enigma	913
10.	Silents' Ice	1193

WHERE TO GET THE DISKS IN THIS ISSUE

NBS: 1 Chain Lane, Newport, Isle of Wight PO33 2QQ

17 BIT: 2-8 Market Street, Wakefield, West Yorkshire WF1 1DH. Tel: 0924 366982

Start Computer Systems: 20 Holmaide, Sunderland SR1 3JE. Tel: 091-565 2506

KCS Power PC Board

PC Emulation on your Amiga

About...

The KCS Power PC is a complete 11MHz 1Mb PC sub-system that can be fitted to any Amiga in minutes.

Based around NEC's highly successful V30 CPU, the Power PC Board offers a very high degree of compatibility at machine language level, yet runs faster than an equivalent Intel 8086.

The 1Mb of Autoconfig™ memory can be accessed by all current Amiga models including the A500 Plus. Even the original A500 can access 512K as a standard expansion with clock, plus a 512K RAM disk.

Adored by critics and users alike, the KCS Power PC Board is a real alternative to buying a complete PC clone.

Installation

The KCS Power PC board fits to any Amiga in minutes.

- On A500 and A500 Plus machines it simply slides into the trapdoor expansion, and doesn't invalidate your warranty!

- On bigger Amigas, such as the 1500/2000/2500/3000, it drops into a vacant Amiga slot using the custom designed adaptor board.

- Once fitted, your Amiga can be switched into PC mode simply by clicking an icon. Just reset and it's an Amiga again.

No fuss, no hassle. Just two machines in the space of one.

Video

- Supports the majority of EGA and VGA modes in 16 glorious colours and monochrome - graphics up to 640x480 and text too. Interlace is required for some modes but a software flicker fixer is built in.

- Other video modes include MDA and CGA text and graphics. Also supports Tandy colour graphics adaptor and Hercules monochrome.

- EGA and VGA graphics can be displayed on a domestic TV or monitor. Unlike real PCs, no extra hardware is required.

Disk

- Up to four Amiga drives can be connected to your system and accessed in PC modes as 3.5" 720K or 5.25" 360K. Typical disk access is at least twice as fast as most real PC clones!

- DOS can be started from any mounted drive 5.25" or 3.5" and most Amiga hard drives.

- Supports most popular hard disks including GVP Impact, Supra and A590 (0mil and SCSI).

- A massive 200K ramdrive (up to 8Mb with expansion) is available in PC mode and it's PC-reset proof too.

Memory

- Even with a base Amiga 704K is free for DOS programs (640K in EGA and VGA modes).

- EMS (expanded memory) is supported allowing you to run Microsoft Windows without problems and store massive files in Lotus 1-2-3. So, if you

have 8Mb on board, the PC can use it.

- XMS (extended memory) is supported - even though this is not usually possible on NEC V30 machines.

Speed

Its landmark speed puts it way ahead of many true PC systems - it even compares favourably with many AT clones.

However, the crux of the matter lies with the video speed, and this, as many critics have noted is where the KCS Power PC Board scores over all others. It's no use having a wizz-bang processor if the screen takes several seconds to redraw itself.

- Tests in text modes have shown it is several times faster than even AT clones with dedicated video hardware. Even in graphics modes, it's no slouch although the emulation is limited by Amiga hardware.

- Add a processor accelerator card, and the 32-bit clean KCS cache software will use it to its full advantage.

Mouse

- Automatic serial mouse emulation is supplied as standard - using your existing Amiga rodent.

- Mouse can be configured as COM1 or COM2.

Joystick

- Up to two sticks can be employed at any time. You decide how they are arranged.

Printer

- Your Amiga's parallel port is accessed as LPT1 in PC mode.

Serial

- DOS usually supports two serial ports, but one is taken by the Amiga mouse. The Amiga's serial can be set as COM1 or COM2 as desired, ie for MODEM etc. up to 19200 baud full-duplex.

Sound

- PC sound is supported, but there's an additional volume control available in software.

Works on...

- All Amigas (except the a1000) fitted with Kickstart 1.2 and Workbench 1.2 or higher.

- Extra memory is not required, but full use will be made of extra hardware, like accelerators, flicker fixers, modems etc.

Help!

- We want you to get the most out of your system so we offer a comprehensive, free telephone helpline service to all registered users.

Updates...

- Since the hardware is a complete PC in its own right, all updates are completely software driven. Registered users can update at any time for a nominal fee to cover media and shipping costs.

'PC emulation is a contentious issue - but the KCS Power PC board is the only one to carry my personal recommendation. It is an excellent product that does all it claims and does it well.' - comments Mark Smiddy, co-author of Mastering AmigaDOS 2.

PRICE

Including MS-Dos/DOS-Help and on-board memory. **£219.95** incl. VAT/Carr.

Excluding MS-Dos, but including on-board memory. **£189.95** incl. VAT/Carr.

Adaptor for 1500/2000/3000 - **£74.95** incl. VAT/Carr.

Available from your local computer shop (if they haven't got it - Ask them why not!). Or direct from Bitcon Devices

BDL BITCON DEVICES LTD.
88 Bewick Road, Gateshead, Tyne & Wear, NE8 1RS England
Tel: (091) 490 1919, Helpline: (091) 490 0202,
Fax: (091) 490 1918

Compatibility is excellent but no-one can guarantee every single program available, therefore if your purchase depends on a particular program, please ask us first or send in a copy of the program. (With suitable S.A.E. it to be returned). Price subject to change without notice.

Wholly developed and produced in the Netherlands

Some of our importers Worldwide:

Australia: HPD (Tel: 08 349 8466), Kaotic (Tel) 03 879 7098, Spain: Discover Inf. (Tel) 957 47 89 38, Sweden: Delikatess-Data (Tel) 31-300580, Docado (Tel) 40-497480, Canary: Customs Chip (Tel) 928 271064, Denmark: Betafon (Tel) 31 31 02 73, Portugal: Softclub (Tel) 01 3528452, Ireland: Computer City/Dublin 745250, New Zealand: Pazac (Tel) 054-82949. All trade enquiries welcome. UK and Overseas (PAL only)



The House That XCAD Built

The above building was designed by Architect David Bishop, modelled by XCAD and rendered with Imagine.

XCAD

SPEED - An Amiga 600 is 6 times faster on zoom and redraw than AutoCAD running on a fast '386.

PRACTICALITY - Ideal for design in architecture, electronic and/or mechanical engineering.

COMPATIBILITY - AutoCAD DXF import/export comes complete across the XCAD range. Print to plotters, laser or dot-matrix printers.

MODULAR - Simple upgrade from XCAD 2000 to XCAD 3000.

XCAD harnesses the incredible power of the Amiga to deliver a draughting tool to beat all others. Processing times are cut to a fraction of most PC based systems. Plans, designs and blueprints can easily be produced using simple, flexible menus or commands.

The XCAD range starts from as little as £129 for XCAD 2000 (1Mb RAM minimum) which includes both 2D Detailing and 3D Modelling plus automatic perspective views.

Imagine

The 24 bit image above was completely originated on an Amiga computer. The drawings were designed with XCAD, the 3D model was created from the 2D drawings and the 24 bit image (1280 x 1024 resolution) was rendered with Imagine - in fact this whole article was put together using Professional Page, XCAD and Imagine. These Amiga products would amount to £777 (RRP), compared to AutoCAD, 3D Studio and Ventura on a PC which comes in at £5100 - and that's just for the software! Imagine 2.0 has a retail price of £269.

Never before has the Amiga been so well complemented. Never before has the Designer been given so much power, speed and flexibility at such an affordable price.

To order the Amiga's No. 1 CAD and rendering packages, contact your local dealer or call:

IN THE UK
DM SERVICES
Tel: (0702) 206165

IN EUROPE
DIGITAL MULTIMEDIA EUROPE
Tel: Belgium (32) 2 657 5803
Fax: Belgium (32) 2 657 5652

All trademarks acknowledged



AEGIS

SOUND MAGIC™

High speed stereo digital audio sampler

ALSO SOLD AS SOUNDMASTER

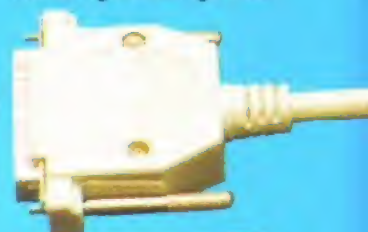


SoundMagic features include:

- Input from any sound source including CDs and microphones—mix or dub over sound samples.
- Sampling rates up to 56K in stereo
- Real-time Volume control
- Mono and Stereo microphone input in addition to built-in microphone
- Overload indicator—keeps the "Ouch" factor out of your samples.
- Computer-controlled dynamic microphone—select from microphone's sampling range of 15K to 50K
- Draws power from computer—works with any power standard
- Meter-length cable for ease-of-use
- Compatible with AmigaDOS™ 1.3 and 2.0
- Works on any model Amiga computer—including the Amiga 3000

Includes AudioMaster IV

Aegis SoundMagic is a trademark of Oxxi, Inc.



**INTRODUCING
A MAJOR
NEW RELEASE**

AUDIO MASTER IV™

Painting With Sound

AudioMaster IV brings new features to the best-selling sampling software for the Amiga computer. With the new Oversampling feature, play sound files of outstanding audio quality—even if originally sampled at low rates.

New features with AudioMaster IV:

- Up to 4 times Oversampling
- Pitch vs Time stretch-compress
- Digital Filtering
- Real-time Pitch Bend, Zoom, Scroll
- Auto hardware Filter Control
- User-called DC offset compensation
- On-screen Time and Position marks
- Progress meter with audio feedback
- Faster screen update
- Optimized Echo, Mix, Ramp functions
- Keep function

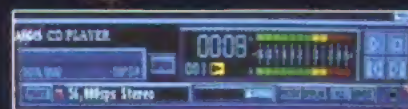


Plus Improved Bonus Programs

- Audio Disk Jockey (new)
- Simulated CD Player with Oversampling
- PlaySound with Oversampling

Plus the features which made AudioMaster the leading sampling software:

- High-speed sampling to 56K in stereo
- Loop sequencing—up to 999 loops per sample. Loops can be played back in any order, to recreate the sample as a smaller file, rearrange it, or do effects such as "stuttering".
- Interactive waveform editing in stereo—create effects like real-time echo, delay and flange. Mix in positive and negative flange, reverse,



ramp up or down, do inversion and Mono-to-Stereo conversions. Add backward masking, digital filtering, pitch and time change.

AudioMaster IV supports all available digitizers for the Amiga, including PerfectSound™ 1.2, and 3, Future Sound™ 500, Mimetics™, StarSound™ and A.M.A.S.™

Rates to 56K in stereo available only if Amiga has a 68020/30 processor, and sampler is capable of these speeds.



Oxxi Aegis

WE FOCUS ON TECHNOLOGY

P O BOX 90309, LONG BEACH, CA 90809-0309 USA
Telephone: (213) 427-1227 FAX: (213) 427-0971

Aegis, Aegis AudiomasterIV, Aegis SoundMagic, Aegis CD Player and Audio Disk Jockey are trademarks of Oxxi, Inc. Amiga is a trademark of Commodore-Amiga. Other products mentioned are trademarks of their respective companies



H. B. MARKETING LTD.
CONCORDE BUILDING
NEWLANDS DRIVE, COLNBROOK, BERKS, SL3 0DX
DEALER SALES HOTLINE 0753-686000



PRECISION DISTRIBUTION
6 PARK TERRACE, WORCESTER PARK
SURREY KT4 7JZ
DEALER SALES HOTLINE 081-330 6911



CENTRESOFT LTD
UNIT 2 & 3, HOLFORD WAY, HOLFORD
BIRMINGHAM B6 7AX
DEALER SALES HOTLINE 021-625 1234



EXPAND YOUR AMIGA

QUALITY PRODUCTS
at affordable prices
W.T.S. ELECTRONICS LTD



STOP PRESS!
KICKSTART 2.04 KIT
COMPLETE INCLUDING
FULL MANUALS ONLY £76
IN STOCK NOW



British Made

A500 PRO-RAM BOARD 1/2 MEG UPGRADE

- Latest design incorporates chipmem option at no extra cost
- Increases computer memory from 1/2 Megabyte to 1 Megabyte
- Allows all 1 Megabyte software to run. Now Commodore A500 standard
- Direct replacement for Commodore A501, 16 Chip Technology for complete compatibility.

£16.00 without clock **£19.00** with clock

UPGRADE TO AMIGA 500 PLUS

☆ Upgrade the standard Amiga 500 to ECS chipset A500 plus capability ☆

- | | | | |
|---|------|----------------|--|
| ★ KICKSTART 2.04 | £38 | £49 | • Upgrades your existing Kickstart to that of the new A500 plus |
| ★ HIGH-RES DENISE | £33 | £39 | • Upgrades your graphic chip capability to that of the A500 Plus inc. anti-flicker |
| ★ 8372 FATTER AGNUS | £38 | £49 | • Enables you to access 1Mb of chip memory with standard modification |
| ★ 8375 2MB FATTER AGNUS | | £65 | • Enables you to access a full 2Mb of chip memory when fitted in adaptor board |
| ★ NEW 8375 2MB PRO AGNUS BOARD | | | • Overcomes software compatibility problems at the flick of a switch |
| Provides 2Mb of chip memory when fitted to A500/A200/CDTV includes Agnus & memory | £139 | | • Allows existing A500 Plus owners to run old software when used in conjunction with switchboard |
| ★ 2.04/1.3 KICKSTART SWITCHBOARD | £18 | £24 | • Upgrades A500 Plus memory to 2Mb chip memory. |
| ★ KICKSTART 1.3 | £28 | £36 | |
| ★ A500 PLUS 1MB UPGRADE | | £39 | |
-
- | | |
|----------------------------------|-------|
| ★ GVP 52MB A500 HARD DRIVE | £359! |
| ★ GVP 52MB A500 HARD DRIVE + 2MB | £399! |

500RX 2Mb - 8Mb MEMORY EXPANSION

500RX 2Mb	£148.00	500RX 8Mb	£299.00
500RX 4Mb	£204.00		

SUPRA MODEMS



- 100% Hayes compatible
 - Tone Pulse auto dial/answer
 - RS232 Interface
 - Internal diagnostics
 - Programmable number storage
- Supra 2400£84.00
Supra 2400 +£129.00



A200 MEMORY UPGRADES

0Mb.....£109.00
2Mb.....£149.00
4Mb.....£189.00
8Mb.....£269.00

CUMANA 3.5" EXTERNAL DISK DRIVE



- High quality
 - High specification
 - Anti click
 - Long moulded cable
- £48.00**

A500 Internal replacement drive£44.00
Kickstart 2.04 Kit includes full manuals + disks£79.00
GVP 52Mb Hard Drive A2000£279.00

A500 HIGH CURRENT POWER SUPPLY



- Allow addition of many peripherals without damage to computer or power supply
 - Switch mode design
- £44.95**



British Made

☆ All prices include P&P & VAT ☆ Please add £5.00 if you require 24 hour courier to your door or parcel post will be used ☆ 12 month warranty ☆

W.T.S. ELECTRONICS LTD, Chaul End Lane, Luton, Beds.
Tel: 0582 491949

We pick out top-quality software and indispensable hardware for you and your Amiga, and we deliver them to you at bargain prices.



**CREDIT CARD
HOTLINE
0458 74011**

Make sure you check out our amazing back issues and subscription offer on page 187!

Easy Amos

MAIL ORDER

SAVE **£14**

Specially designed for the beginner, *Easy AMOS* is more than just a computer language. Based on the highly successful *AMOS*, it has many more examples and detailed explanations to help you learn.

Description	Price	Order No
Easy AMOS	£29.99	AF247

Two Great Games

MAIL ORDER

SAVE **£6**

A fantastic package with Imageworks' *First Samurai* arcade adventure doubling up with another Format-Gold winning game: *Mega-lo-Mania*, the strategy game from Sensible Software.

Description	Price	Order No
Two for one	£24.99	AFMegSam

Amiga Format Mail Order

Home Accounts 2

MAIL ORDER

SAVE **£10**

Described by *Amiga Format* as "a package which will suit any household", this is the ideal way to keep track of your financial affairs, from what's in your cheque account to how much is left after the bills!

Description	Price	Order No
Home Accounts 2	£44.99	AF229

Amiga Format Binder

MAIL ORDER

SAVE **£10**

Are you tired of all your *Amiga Formats* being left scattered on the coffee table? Well protect them with these black-and-silver binders.

Description	Price	Order No
One binder	£4.95	AF108
Two binders	£9.00	AF109

Stereo Master

MAIL ORDER

SAVE **£10**

This update of Microdeal's *MasterSound* is an ideal entry level sound sampler. Its numerous features, and improved easy-to-use graphic interface, make this an excellent bargain for budding music freaks.

Description	Price	Order No
Stereo Master	£29.99	AF234

New Technosound Turbo

MAIL ORDER

SAVE **£10**

Newly updated sampler from New Dimensions allows you to grab digitised sounds, then sequence them into simple compositions. Package contains new cartridge, updated manual and set of audio leads.

Description	Price	Order No
Technosound Turbo	£29.95	AF246

Award Winners Compilation

MAIL ORDER

SAVE **£5**

What a combination! Format Gold ground-breaker *Populous*, stunning footie fun in *Kick Off*, the cartoon-on-a-disk *Space Ace* and the top-class puzzle game *PipeMania*: all rolled into one great package.

Description	Price	Order No
Award Winners Comp	£20.99	AF245

10 Great Games Comp

MAIL ORDER

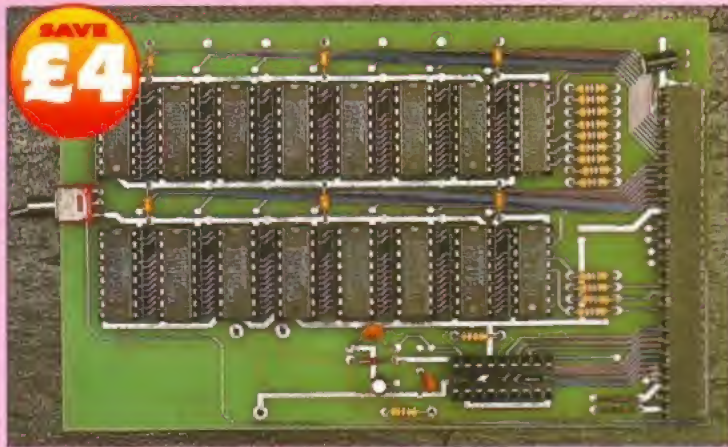
SAVE **£6**

Xenon 2, *Pro Tennis Tour*, *Ferrari Formula One*, *Nighthunter*, *Rick Dangerous*, *Super Ski*, *Pick 'n' Pile*, *Carrier Command*, *Chicago* and *Satan*. (Doesn't work on an A500 Plus).

Description	Price	Order No
10 Great Games	£24.99	AFGGComp

The Amiga Format star buys

512K Expansion



Admittedly this memory expansion from WTS in the UK, probably isn't the most glamorous memory expansion that you're ever likely to see for your Amiga. But don't worry about that because it gets the job done, and it also means we can bring all you 512K users out there the memory expansion that you need, but for the lowest possible price!

It also comes with a battery-backed-up clock, so you need never have to set the time again. More and more software is being produced now that will only work properly if you have a one megabyte machine: and if you don't have an expansion, then you're also missing out on the complete full-price programs that are part of the *Amiga Format* Collection, like *Vista*, brought to you on Coverdisk 33, *PageSetter* (Coverdisk 34), *Spectracolor* (35), *CanDo* (36) or this month's excellent *IntroCAD*. So now you can expand your mind and your Amiga. Get upgraded!

Description	Price	Order No
512K RAM Expansion	£25.99	AM237

Fun School 4



Are you sick of your kids just blasting away at swarms of mutant aliens? Do you want them to be eager to learn something useful from their Amiga, other than what the level codes are for the latest game to hit the top of the Penguin charts?

Well fret no longer, because the latest versions of the top-selling home educational programs are now available through *Amiga Format* Mail Order! The *Fun School* series from Europress Software aims to teach some of the basic educational skills to children, but to do it via enjoyable games. The new series comes in three different flavours, and it is aimed at three different age groups: Teddy looks after the under fives, Freddie the Frog caters for the five-to-seven year olds, while Sammy the Spy is there for eight-to-elevens. Each age level has six different games, which teaches and tests various facts and concepts.

Description	Price	Order No
Teddy Disk	£17.99	AM231
Frog Disk	£17.99	AM232
Spy Disk	£17.99	AM233

Amiga Format Mail Order

Name.....
 Address.....
 Post Code.....
 Phone Number.....

Description	Price	Order No.
Total order		

Method of payment (please circle) Access Cheque Visa PO

Please make cheques payable to:

Future Publishing Limited

All prices include posting, packing and VAT

Credit Card No.....

Expiry Date.....

SEND THIS FORM TO:

Amiga Format,
 Future Publishing Limited,
 Somerton, Somerset TA11 6TB

**PLEASE DO NOT SEND CASH,
 USE METHOD OF PAYMENTS LISTED ABOVE**

For overseas orders call Nikki
 for prices on + 44 458 74011

The **AMIGA** Collection

FORMAT

Superb, complete full-price programs for practically nothing isn't the whole story of the **Amiga Format** Collection. You also have the chance to upgrade to new versions of the Collection programs at special prices. Here are the offers.

AMIGA FORMAT

182

SEPTEMBER 1992



Sequencer One Plus Upgrade Kit

Also on the Special Christmas Issue was the powerful *Sequencer One* music package, RRP £89. (If you missed out on this amazing offer – which included *Graphics Workshop* as well – you can still get copies through Back Issues on Page 186.)

Through *Amiga Format* Mail Order you can upgrade to *Sequencer One Plus*. By doing so you can take advantage of a whole host of extra features that are not available on version one. These include the unique Juke Box screen and Gajits' new 'Diamond Drag' note-editing system. Also included in this latest update is tempo maps, auto count in, MIDI sys ex handling, track solo, extra quantis options and much more!

All of this should really sell for a massive RRP of £129.95. For a short time though, *Sequencer One Plus* is available as an upgrade kit for *Sequencer One* owners (and that of course includes everyone who has the program from the *Amiga Format* Coverdisk 30) for £49.95 (RRP). But we're offering it to you at a mere £39.95, which works out at an amazing total saving of £90.

Description	Price	Order Code
Sequencer One Plus	£39.95	AM235

Graphics Workshop

On our Christmas Special Issue we gave you, for practically nothing, the powerful paint and animation program, *The Graphics Workshop*. What makes this drawing program so special, though, is along with all the normal tools that you would expect from a top paint program are some powerful additional utilities.

You're not just limited to using just one custom brush, instead you can pick up and store up to 10 brushes and use them at any time. It also features not only ANIM and Animbrush forms of animation, but also a Cell system which is probably the most powerful animation system there is for the Amiga. Why not get the most out of this top program by buying this expertly illustrated instruction book and tutorial guide (which includes a special tutorial disk as well) which has been specially rewritten by *Amiga Format* writer Maff Evans.

Description	Price	Order Code
Graphics Workshop	£16.40	GPHWK



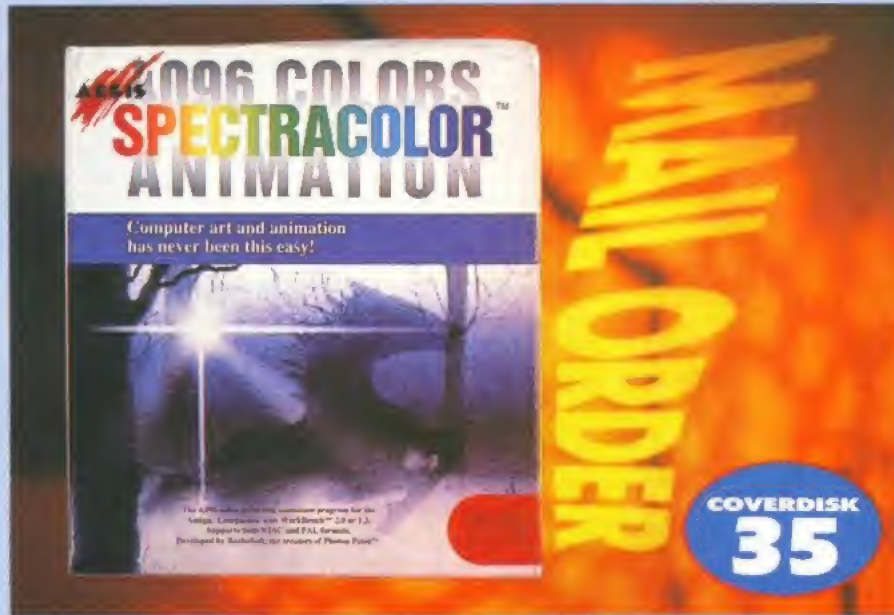
PageSetter 2



If you want to produce a news letter for your local rugby club, or start up a footie fanzine then you all you need is some DTP software. And there's no better program to start off with than *PageSetter*. We gave away version 1.2 of this very first Amiga DTP program on the Coverdisk of Issue 34, however if you want the current version here it is.

Gold Disk's update of the beginner's layout program takes a different approach from the original. It has been completely rewritten in machine code for extra speed. Also rather than having separate text editing and picture editing modules, it now lets you edit text on the page. It also uses Compugraphic scalable fonts throughout, so extra quality on print-out is guaranteed. All in all, this is the next best thing to professional-quality DTP on the Amiga. A full and detailed manual included.

Description	Price	Order Code
PageSetter 2	£50	PAGE UP



MAIL ORDER

**COVERDISK
35**

Spectracolor

Oxli-Aegis actually produced *Spectracolor* before they made the *Junior* version featured on the Coverdisk of *Amiga Format* 35. It was the first HAM paint program to use full brush animation, in the style of *Deluxe Paint*. Its powerful features make it a must for anyone who wants to do real animation in 4,096 colours, and it also has a number of unique innovations:

- Brush Wraps
- Advanced PAINT Modes
- Air Brush
- Brush Animation – including curved path animation with fades and simple morphing.

But this upgrade specially arranged through *Amiga Format* Mail Order doesn't stop there. You'll also receive a program disk, plus a sample tutorial disk and an in-depth 300-page manual that will take you through countless examples and techniques showing you precisely why *Spectracolor* is such an excellent paint-and-animation package.

Description	Price	Order Code
Spectracolor	£29.99	SPECT UP

CanDo – latest version

If you want to start learning about programming a computer then you can't go far wrong with Innovatronics' applications generator *CanDo*. With this package you'll be able to create a variety of applications, from accounts packages to complete multimedia information systems that encapsulate all the elements that have made this subject the talking point that it has become in recent years.

Other programs can also draw upon *CanDo's* ability to use sampled sounds, IFF images and even animations, and if you have *Workbench 2* you can even use *CanDo* to control other applications on even hardware devices using ARExx scripts.

Innovatronics have been listening to requests from the people who used the original version of this powerful multimedia package, and the latest version 1.6 of the full professional *CanDo* program has a number of updates in accordance with their requests. Among these is full support for the gameport device, which means you can even write games with it! The program comes with a full and detailed manual, which could make all the difference for aspiring *CanDo* programmers.

Description	Price	Order Code
CANDO	£89.95	CANUP



MAIL ORDER

**COVERDISK
36**

AMIGA FORMAT

183

SEPTEMBER 1992

Amiga Format Mail Order

Name

Address

Post Code

Phone Number

Description	Price	Order Code
Total order		

Method of payment (please circle) Access Visa PO

Cheque

Please make cheques payable to:
Future Publishing Limited

All prices include posting, packing and VAT

Credit Card number

Expiry Date

SEND THIS FORM TO:
**Amiga Format,
Future Publishing Limited,
Somerton, Somerset TA11 6TB**

**PLEASE DO NOT SEND CASH,
USE METHOD OF PAYMENTS LISTED ABOVE**

For overseas orders call Nikki
for prices on + 44 458 74011

AMEAGRE PRICES FOR AMIGA USERS

10 Great Games	20.95	Double Dragon III	17.45	Kid Gloves II	17.45	Robin Hood	17.45
3D Construction Kit	33.95	Dragon Ninja (N+)	6.95	Kind Words 2 (N+)	36.95	Robocod	17.45
4 Wheel Drive (Comp)	20.95	Dune (1Mb)	20.95	Kings Quest 4 (1Mb)	26.95	Robocop I	6.95
A.P.B.	6.95	Dyna Blaster	20.95	Kings Quest 5 (1Mb)	26.95	Robocop II	17.45
A10 Tank Killer (1Mb)	23.95	Easy Amos (1Mb)	25.95	Knights of the Sky (1Mb)	23.95	Robocop III	17.45
A320 Airbus	25.95	Eco Phantoms	6.95	Kwik Snax	6.95	Rolling Ronny (N+)	17.45
Addams Family	17.45	Elit	17.45	Last Ninja II (N+)	17.45	Rotax	7.95
AD1 English (11-12)	17.45	Elvira I (1Mb, N+)	17.45	Legend	20.95	Rugby - The World Cup	17.45
AD1 English (12-13)	17.45	Evra II	23.95	Leisure Suit Larry 1	23.95	Sea, Soft & Sun (Comp)	17.45
AD1 Maths (11-12)	17.45	Emlyn Hughes Int. Soccer	7.95	Leisure Suit Larry 5 (1Mb)	23.95	Secret Of Monkey Island (1Mb, N+)	17.45
AD1 Maths (12-13)	17.45	Epic (1Mb)	20.95	Lemmings (Original)	17.45	Secret Of Monkey Island II (1Mb)	26.95
Advanced Destroyer Sim	7.95	Euro Football Champ	17.45	Lemmings Levels (Add-On version)	13.95	Secret Of Silver Blades (1Mb)	20.95
Advanced Truck Machine	5.95	European Championships	17.45	Lemmings Level (Stand Alone)	17.45	Sensible Soccer	17.45
Agony	17.45	1992	17.45	Let Sleeping Gods Lie	7.95	Seznour Goes To Hollywood	6.95
Air Sea Supremacy (Comp)	20.95	Exile	17.45	Let's Spell At Home	14.95	Shadow Of The Bear	7.95
Air-Land-Sea (Comp)	23.95	Eye Of The Beholder I	20.95	Let's Spell At The Shops	14.95	Shadow Of The Bear II	17.45
(888 AS N+)	23.95	Eye Of The Beholder II	20.95	Let's Spell Out And About	14.95	Shadowlands	20.95
Amos 3D (N+)	20.95	F-15 Strike Eagle II	23.95	Life & Death	17.45	Sherman M4	6.95
Amos Compiler	33.95	F-18 Combat Pilot	23.95	Linker Collection	13.95	Shoe People	17.45
Amos The Creator	7.95	F-19 Stealth Fighter	20.95	Linker (1Mb)	23.95	Shoo' Em Up Construction Kit	8.95
Anarchy	17.45	F-29 Retaliator (N+)	17.45	Little Puff (N+)	6.95	Shuttle	20.95
Another World	17.45	Face-Off - Joe Hockey	11.95	Liverpool Football	17.45	Silent Service II (1Mb)	23.95
Apidsy	17.45	Falcon - Counterstrike	7.95	Lombard RAC Rally	6.95	Silverborn	7.95
Aventure	17.45	Data Disk	7.95	Lord Of The Rings	17.45	Sim Ant	18.95
Arkano II - Revenge of Doh	6.95	Falcon Firefight Data Disk	7.95	Lotus Sport Turbo Challenge	7.95	Sim City	18.95
Armour Geddon	17.45	Fantasy World Dizzy (N+)	6.95	Lotus Turbo Challenge II	17.45	Sim City - Architecture 1	7.95
Arsenal - The Computer Game	17.45	Fast Food (N+)	5.95	Lure Of The Tempress (1Mb)	20.95	Sim City - Architecture 2	7.95
Award Winners (Comp)	17.45	Final Blow	17.45	M1 Tank Platoon	20.95	Sim City - Terrain Editor	7.95
Ballistik	7.95	Final Flight (N+)	17.45	Magic MATH (4-8)	17.45	Sim City/Populous	20.95
Bane Of The Comic Forge (1Mb)	25.95	Final Fight (N+)	17.45	Magic Pockets	17.45	Sim Earth	20.95
Barbarian I	6.95	Final Fantasy (N+)	17.45	Magic Storybook (1Mb)	20.95	Simon	17.45
Barbarian II (Paymosis)	17.45	Final Fantasy II	17.45	Magical Dizzy	6.95	Simon Manager - Multi Player	17.45
Bards Tale 3	8.95	Final Fantasy III	17.45	Manchester United	17.45	Sooty & Sweep	6.95
Bards Tale Trilogy	23.95	Final Fantasy IV	17.45	Manchester United Europe	17.45	Space 1889 (1Mb)	20.95
Batman - Caped Crusader	6.95	Final Fantasy V	17.45	Maths Adventure (5-14)	17.45	Space Ace II	23.95
Batman The Movie	6.95	Final Fantasy VI	17.45	Mac (Comp) (N+)	20.95	Space Crusade	17.45
Battle Chess	8.95	Final Fantasy VII	17.45	Magia Maths	18.95	Space Gun	17.45
Battle Chess II (N+)	17.45	Final Fantasy VIII	17.45	Mega Sports	17.45	Special Forces (1Mb)	23.95
Battle Isle	20.95	Final Fantasy IX	17.45	Mega-Lo-Mania/First Samurai	20.95	Spell Book (4-9)	6.95
Beastbusters	17.45	Final Fantasy X	17.45	Megatraveler I (1Mb)	20.95	Spike In Transylvania	6.95
Better Maths (12-16)	17.95	Final Fantasy XI	17.45	Mercenary 3	13.95	Sporting Gold (N+)	20.95
Better Spelling (8 Adult)	17.95	Final Fantasy XII	17.45	Merco	17.45	Sports Beat	17.45
Big Run	17.45	Final Fantasy XIII	17.45	Micro German	18.95	Sports Collection (N+)	13.95
Birds Of Prey (1Mb)	23.95	Final Fantasy XIV	17.45	Microprose Gold (1Mb)	23.95	ST Dragon	6.95
Bitmap Brother - Volume 1	17.45	Final Fantasy XV	17.45	Midnight Resistance (N+)	6.95	Starflight 1	8.95
Bitmap Brother - Volume 2	17.45	Final Fantasy XVI	17.45	Midwinter II (1Mb)	23.95	Steep The Slug	6.95
Black Crypt (1Mb, N+)	17.45	Final Fantasy XVII	17.45	Mig 29 Soviet Fighter (N+)	5.95	Steve McQueen - West Phaser	17.45
Board Genius	20.95	Final Fantasy XVIII	17.45	Mig 29M Super Fulcrum (N+)	26.95	Storm Master	20.95
Bonanza Brothers	17.45	Final Fantasy XIX	17.45	Might And Magic III (1Mb)	23.95	Street Fighter	6.95
Boston Bomb Club	17.45	Final Fantasy XX	17.45	Might And Magic III (1Mb)	23.95	Strider	6.95
Brain Blaster	8.95	Final Fantasy XXI	17.45	Might And Magic III (1Mb)	23.95	Strike Fleet	17.45
Bubble Bobble (N+)	6.95	Final Fantasy XXII	17.45	Might And Magic III (1Mb)	23.95	Striker (1Mb)	17.45
Cadaver - The Payoff	11.95	Final Fantasy XXIII	17.45	Might And Magic III (1Mb)	23.95	Stiker Manager	7.95
California Games II	17.45	Final Fantasy XXIV	17.45	Might And Magic III (1Mb)	23.95	Stunt Car Racer	6.95
Capcom Collection	20.95	Final Fantasy XXV	17.45	Might And Magic III (1Mb)	23.95	Supaplex	6.95
Cardiaxe	17.45	Final Fantasy XXVI	17.45	Might And Magic III (1Mb)	23.95	Super Heroes (Comp)	20.95
Carl Lewis Challenge	17.45	Final Fantasy XXVII	17.45	Might And Magic III (1Mb)	23.95	Super Off Road	7.95
Cartoon Collection	17.45	Final Fantasy XXVIII	17.45	Might And Magic III (1Mb)	23.95	Super Sega (Comp)	20.95
Castle	17.45	Final Fantasy XXIX	17.45	Might And Magic III (1Mb)	23.95	Super Sim Pack (Comp)	20.95
Castle Of Dr Brain (1Mb)	23.95	Final Fantasy XXX	17.45	Might And Magic III (1Mb)	23.95	Super Space Invaders (N+)	17.45
Castles (1Mb)	20.95	Final Fantasy XXXI	17.45	Might And Magic III (1Mb)	23.95	Super Tetris (1Mb)	20.95
Celtic Legends	20.95	Final Fantasy XXXII	17.45	Might And Magic III (1Mb)	23.95	Supercars	6.95
Champions Of Krynn (1Mb)	20.95	Final Fantasy XXXIII	17.45	Might And Magic III (1Mb)	23.95	Superstar II	17.45
Championship Manager (1Mb)	20.95	Final Fantasy XXXIV	17.45	Might And Magic III (1Mb)	23.95	Super Star 2 (Comp)	17.45
Chart Attack - Volume 1 (Comp)	20.95	Final Fantasy XXXV	17.45	Might And Magic III (1Mb)	23.95	Supremacy	20.95
Chase HQ I	17.45	Final Fantasy XXXVI	17.45	Might And Magic III (1Mb)	23.95	Suspicious Cargo	17.45
Chase HQ II	17.45	Final Fantasy XXXVII	17.45	Might And Magic III (1Mb)	23.95	Swrv (N+)	17.45
Chess Championship 2175	13.95	Final Fantasy XXXVIII	17.45	Might And Magic III (1Mb)	23.95	Tennis Cup 2	17.45
Chessmaster 2100 (1Mb)	20.95	Final Fantasy XXXIX	17.45	Might And Magic III (1Mb)	23.95	Terminator II	17.45
Chips Challenge	17.45	Final Fantasy XL	17.45	Might And Magic III (1Mb)	23.95	Test Drive II Collection	20.95
Circo Heat	17.45	Final Fantasy XLI	17.45	Might And Magic III (1Mb)	23.95	The Manager (1Mb)	20.95
Civilisation (1Mb)	23.95	Final Fantasy XLII	17.45	Might And Magic III (1Mb)	23.95	Things To Do With Numbers	14.95
CJ In Space	6.95	Final Fantasy XLIII	17.45	Might And Magic III (1Mb)	23.95	Things To Do With Words (5-12)	14.95
CJ In The USA	6.95	Final Fantasy XLIV	17.45	Might And Magic III (1Mb)	23.95	Thunderhawk	20.95
Conflict Korea (1Mb)	23.95	Final Fantasy XLV	17.45	Might And Magic III (1Mb)	23.95	Tip Off	17.45
Continental Circus	7.95	Final Fantasy XLVI	17.45	Might And Magic III (1Mb)	23.95	Titus The Fox	17.45
Cool Croc Twins	17.45	Final Fantasy XLVII	17.45	Might And Magic III (1Mb)	23.95	Toki (N+)	17.45
Corporation + Mission	17.45	Final Fantasy XLVIII	17.45	Might And Magic III (1Mb)	23.95	Top League (Comp) (N+)	20.95
Count & Add (Under 7s)	8.95	Final Fantasy XLIX	17.45	Might And Magic III (1Mb)	23.95	Touring Car Racer	6.95
Covert Action	23.95	Final Fantasy L	17.45	Might And Magic III (1Mb)	23.95	Treasure Island Dizzy (N+)	4.49
Crazy Cars 3	17.45	Final Fantasy LII	17.45	Might And Magic III (1Mb)	23.95	Treasures Of Sav. Frontier (1Mb)	21.95
Cruise For A Corpse	19.95	Final Fantasy LI	17.45	Might And Magic III (1Mb)	23.95	Trivial Pursuit	13.95
Curse Of The Azure Bonds	20.95	Final Fantasy LIV	17.45	Might And Magic III (1Mb)	23.95	Turrican	6.95
Cyberblast	13.95	Final Fantasy LV	17.45	Might And Magic III (1Mb)	23.95	Turrican II	6.95
Cybertron III	17.45	Final Fantasy LVI	17.45	Might And Magic III (1Mb)	23.95	U.M.S II	20.95
D-Generation	14.95	Final Fantasy LVII	17.45	Might And Magic III (1Mb)	23.95	Ugh!	17.45
Daily Sport Cover Girl	17.45	Final Fantasy LVIII	17.45	Might And Magic III (1Mb)	23.95	Ultima 6 (1Mb)	20.95
Daley Thompson's Olympic Challenge	6.95	Final Fantasy LIX	17.45	Might And Magic III (1Mb)	23.95	Utopia	20.95
Dark Queen Of Krynn (1Mb)	21.95	Final Fantasy LX	17.45	Might And Magic III (1Mb)	23.95	Utopia - New Worlds Data Disk	11.95
Dar Boot	20.95	Final Fantasy LXI	17.45	Might And Magic III (1Mb)	23.95	Virtual Reality 2 (Comp)	20.95
Death Knights Of Krynn (1Mb)	20.95	Final Fantasy LXII	17.45	Might And Magic III (1Mb)	23.95	Virtual Worlds (Comp)	20.95
Deliverance	17.45	Final Fantasy LXIII	17.45	Might And Magic III (1Mb)	23.95	Via	7.95
Deluxe Paint IV	59.95	Final Fantasy LXIV	17.45	Might And Magic III (1Mb)	23.95	Vroom	17.45
Demon Blue	8.95	Final Fantasy LXV	17.45	Might And Magic III (1Mb)	23.95	Wacky Races	6.95
Dewdney (N+)	20.95	Final Fantasy LXVI	17.45	Might And Magic III (1Mb)	23.95	Warzone	20.95
Dizzy Collection	17.45	Final Fantasy LXVII	17.45	Might And Magic III (1Mb)	23.95	Wayne Gretsky 2	17.45
Dizzy's Excellent Adventures	17.45	Final Fantasy LXVIII	17.45	Might And Magic III (1Mb)	23.95	Wily Beamish (1Mb)	23.95
Dojo Dan	17.45	Final Fantasy LXIX	17.45	Might And Magic III (1Mb)	23.95	Wizkid	17.45
Donald's Alphabet Chase	17.45	Final Fantasy LXX	17.45	Might And Magic III (1Mb)	23.95	Wolfchild	17.45
Double Dragon I	7.95	Final Fantasy LXXI	17.45	Might And Magic III (1Mb)	23.95	Wolfpack (1Mb)	20.95
Double Dragon II	7.95	Final Fantasy LXXII	17.45	Might And Magic III (1Mb)	23.95	Wonderland (1Mb)	20.95

3 1/2" Double Sided Double Density

QUANTITY	PRICE
10	£4.75
20	£9.25
25	£11.30
30	£13.25
35	£15.10
40	£16.90
45	£18.80
50	£20.50
80	£32.45
100	£36.90
120	£43.70
150	£53.85
200	£68.95
300	£103.45
400	£135.95
500	£167.50

WITH LABELS & WARRANTY

BOXES

(with keys and dividers)

10 Slimpack	0.94
40 capacity	£4.95
50 capacity	£5.60
80 capacity	£6.30
100 capacity	£6.80
120 capacity	£8.75
140 capacity	£9.95
150 capacity	£10.95
150 Deluxe stackable	£21.95

JOYSTICKS

Python 1 (OS130F)	£9.25
Maverick 1 (OS128F)	£13.75
125+	£9.00
The Bug	£13.50
Star Probe	£13.50
Competition Pro 5000 - black	£13.75
Speedking A/F	£11.00
Navigator A/F	£13.75
Topstar (SV127)	£21.50
Supercharger (SV123)	£9.00
Sting-Ray A/F	£12.50
Megastar A/F (SV133)	£22.00

MISCELLANEOUS

Cartoon Classics Pack	£359.95
Philips CM8833II Monitor	£246.75
Deluxe Work Centre	£46.95
Cumana Disk Drive	£57.95
5Mb Upgrade + clock	£29.95
5Mb Upgrade	£26.95
1Mb Upgrade (500+)	£56.95
Mouse	£14.75
Mouse Mat	£2.95
Mouse House	£2.95
Dustcover (Amiga)	£3.65
Dustcover (Monitor)	£6.99
Dustcover (LC10)	£7.65
Dustcover (LC24)	£6.99
Auto Mouse/Joystick Switch	14.75
Trackball	£31.96
Head Cleaner	£3.75

All Prices include UK postage and VAT and are effective until 6th September 1992
Overseas orders - Postage charged at cost.

New titles will be sent as they are released and are subject to manufacturers price reviews

Credit Card orders:
(10.00am - 10.00pm, 7 days not an answer phone)

071-608-0624

Cheques/Postal Orders to
DataGem Ltd, Dept AF, 23 Pitfield Street, London N1 6HB
Showroom open Monday - Friday 10am - 6pm Exit 2, Old Street Tube
All orders taken subject to our standard terms & conditions

MILLENIUM MICROS

DISCOUNT MAIL ORDER COMPUTER SUPPLIES

THIS IS ONLY A SMALL SELECTION OF OUR SUPPLIES - SO IF YOU CAN'T FIND WHAT YOU WANT BELOW - PHONE

Amiga 600 - 1Mb/Deluxe Paint II.....£360	
Amiga 600 - 1Mb/20Mb HD.....£480	
CDTV + Lemmings/Encyclopaedia.....£445	
A1500 Home Accounts 1Mb/2XFD.....£550	
A2000 + 40Mb HD/1Mb/software.....£1160	
A3000 + 50Mb HD/2Mb/25MHz.....£2750	
A3000 + 100Mb HD/2Mb/25MHz.....£3080	
VIDEO DIGITISERS & ENHANCEMENTS	
Genlock A8802 semi-professional.....£185	
Genlock A8806 professional.....£680	
Genlock Super A8802 (SVHS).....£560	
GVP Impact Vision 24 bit colour.....£1550	
IGD FFV flicker free video.....£215	
GPB IEEE 488 interface board.....£320	
Rocgen Plus Genlock.....£135	
Amiga A2300 Genlock (composite/semi-prof).....£90	
Digi-View Media Station.....£125	
MONITORS	
Citizen Pro CM141 14" col/SVGA.....£315	
Commodore 1930 MkII 14" col/VGA.....£238	
Commodore 1935 14" Super col/VGA/Trisync.....£325	
Commodore A1960 14" VGA multiscan/col.....£440	
Commodore 10845 14" stereo/col.....£225	
Commodore A15 FST 15" FST/multisync.....£645	
PRINTERS	
HP Deskjet 500.....£365	
HP Deskjet 500C (colour).....£545	
HP Paintjet RS232 or Centronics.....£650	
HP Paintjet XL RS232 & Centronics.....£1675	
HP Laserjet IIIsi.....£3400	
HP Laserjet IIP Plus.....£725	
Full range of HP accessories available	
Canon BJ10EX.....£240	
Canon BJ300.....£375	
Canon BJ330E.....£515	
Canon LBP-4 Plus (laser).....£775	
Canon LBP-8 III Plus.....£1325	

GVP	
2 year warranty on GVP products (SCSI HDs - 1 year warranty)	
ACCELERATORS	
G-Force 68030EC/68882 25MHz/1Mb.....£535	
G-Force 68030EC/68882 40MHz/4Mb.....£879	
G-Force 68030 EC/68882 50MHz/4Mb.....£1245	
G-Force 68040 28MHz/2Mb.....£1675	
A530 Combo 68030EC	
40MHz/1Mb + 52Mb HD.....£649	
As above with 120Mb HD.....£795	
SIMM 32 bit/4Mb expansion for 030 Accelerators and A530.....£178	
SIMM 32 bit/1Mb expansion for 040 28MHz accelerator.....£175	
HARD CARDS	
Impact series II HC9+ 52Mb HD.....£255	
Impact series II HC9+ 120Mb HD.....£395	
Impact series II HC9+ 240Mb HD.....£615	
SIMM 1Mb x 9 bit/80ns memory expansion for above.....£45	
HARD DRIVES	
Series II HD8+ 52Mb HD.....£329	
Series II HD8+ 120Mb HD.....£435	
Series II HD8+ 240Mb HD.....£715	
SIMM 1Mb x 9 bit/80ns expansion.....£45	
SIMM 4Mb x 9 bit/80ns expansion.....£175	
SCSI HARD DRIVES	
Quantum 52Mb HDD.....£210	
Quantum 120Mb HDD.....£325	
Quantum 240Mb HDD.....£565	
HDD Mount Kit.....£33	
REMOVABLE MEDIA	
Syquest SQSSS 44Mb internal HD + cartridge/20ms AT.....£410	
Syquest 44Mb HD + SCSI controller (series II HC8+70Mb) + cartridge.....£495	
Syquest 44Mb removable cartridge.....£95	
Syquest SQ110 88Mb internal HD + cartridge/20ms AT.....£535	
As above with SCSI.....£630	
Syquest 88Mb removable cartridge.....£120	

All prices include VAT & full warranty.
Postage £8. Credit/debit card orders 081-546 4522, 9am-8pm 7 days.
Cheque/postal orders to: MILLENIUM MICROS, 30 FERNHILL GARDENS, KINGSTON, SURREY KT2 5DL.

We also stock: Acros, Wordstar, Borland, Toshiba, Pacific Data Products, Omnipage, Microsoft, Lotus, Wordperfect, Roland, Seikosha, Citizen, Sharp, Psion, Goldstar, Atari, Star, Epson, Panasonic, and many more!

bj
print . graphics

24 bit
Photographic
quality
for
Amigas

OHP's
Plain Paper
Film
Bromide

Resolution
2400 dpi sq

tel . fax 0803 666003

AMIGA FORMAT

185

SEPTEMBER 1992

LOWEST PRICES

BCS SUMMER OFFERS

CDTV MULTI MEDIA
£549 PHONE FOR
DETAILS

★ OFFER 1 ★

Philips CM8833 Mk II + on-site maintenance + F19 Flight Sim + lead + dust cover
£219

★ OFFER 2 ★

A500 1.3, Batman, Gremlins, Deluxe Paint II, 10 3.5" DS/DD disks, disk box, mouse mat, microswitch, joystick, tailored dust cover
£299 (limited stock)

★ OFFER 3 ★

New A600, Deluxe Paint III, mystery game, Superbase Personal, Spritz, 10 3.5" DS/DD disks, disk box, mouse mat, microswitch joystick, tailored dust cover
£379

★ OFFER 4 ★

New A600 20Mb HD, Superbase Personal, Deluxe Paint II, 10 3.5" DS/DD disks, disk box, mouse mat, microswitch joystick, tailored dust cover.
£469

DISKS DISKS DISKS

100% certified error free
50 3.5" DS/DD.....£92.99
100 3.5" DS/DD.....£37.99
150 3.5" DS/DD.....£52.99
200 3.5" DS/DD.....£69.99
400 3.5" DS/DD.....£138.99
500 3.5" DS/DD.....£165.99
1000 + Call for spot prices
Prices include VAT & free delivery & free labels

New 100 capacity 3.5" lockable boxes & disks

No quibble lifetime guarantee
50 3.5" DS/DD + 100 cap lockable box.....£25.99
100 3.5" DS/DD + 100 cap lockable box.....£40.99
150 3.5" DS/DD + 100 cap lockable box.....£56.99
200 3.5" DS/DD + 2 100 cap lockable boxes.....£74.99
400 3.5" DS/DD + 4 100 cap lockable boxes.....£147.99
500 3.5" DS/DD + 5 100 cap lockable boxes.....£174.99
All prices include VAT & free delivery & free labels

DISKS + STACKABLE BANK BOXES

50 3.5" DS/DD + 80 Cap Bank Box.....£31.99
100 3.5" DS/DD + 80 Cap Bank Box.....£45.99
200 3.5" DS/DD + 2 x 80 Cap Bank Box.....£85.99
500 3.5" DS/DD + 5 x 80 Cap Bank Box.....£199.99
Prices include VAT/Labels/Delivery

5.25" DS/DD Disks.....21p each
5.25" DS/HD Disks.....39p each

3.5" DS/DD Disks 60p each
100 3.5" DS/HD.....£61.00 INC. P&P

DISK BOXES

3.5" 10 Cap boxes.....£0.85 each
3.5" 40 Cap boxes.....£4.10 each
3.5" 100 Cap boxes.....£4.50 each
5.25" 10 Cap box.....£1.10 each
5.25" 50 Cap boxes.....£5.10 each
5.25" 100 Cap boxes.....£5.90 each

DUST COVERS

A500 dust cover.....£3.00
A600 dust cover.....£3.00
Star LC-200 cover.....£3.50
Star LC-24 200 cover.....£3.50
Philips CM8833 MkII cover.....£3.50
Citizen 9 cover.....£3.50
Citizen 24 cover.....£3.50

GVP SERIES II HARD

DRIVES & ACCELERATORS

GVP 52Mb HD 8 II.....£339
GVP 120Mb HD 8 II.....£434
GVP 240Mb HD 8 II.....£675
GVP A530 Combo 40MHz + 50Mb.....£645
GVP A530 Combo 40MHz + 120Mb.....£750
GVP A530 Combo 40MHz + 240Mb.....£979
Phone for prices on A1500 GVP products

STACKABLE BOXES

150 Cap 3.5" Posso Box.....£15.50
70 Cap 5.25" Posso.....£16.50
60 Cap 3.5" Stackable Box.....£10.00
80 Cap 3.5" Bank Box.....£9.95

AMIGAS & PRINTERS

A600.....£358
A600 20Mb HD.....£454
Star LC-200.....£199
Star LC-24200.....£259
(Printers inc. lead)

ACCESSORIES

Competition Pro Joystick.....£15.00
1/2Meg + Clock.....£29.00
1000 Labels.....£8.00
Cumana Drive.....£58.00
1000 Tractor Labels.....£10.00
Amiga Naksha Mouse.....£19.50
Mouse Mat.....£2.50
Quickshot Python 1.....£9.50
Printer Lead.....£8.00
Zipstick.....£11.00
1 meg A500 Plus Upgrade.....£50.00
Cheetah 125+.....£7.95
Black Cruiser Joystick.....£10.00
Jetfighter Joystick.....£19.50
Topstar Joystick.....£21.00
14" Monitor Stand.....£8.50
Printer Stand.....£6.00
3.5" Cleaning Kit.....£2.50

ORDER HOTLINE:

0273 506269 / 0831 279084

All prices include VAT. Add £4 delivery unless stated.
Add £10 next day. Cheques will be held for clearance.

Call or send cheques / postal orders to:

BCS Ltd.,
349 Ditchling Road, Brighton,
East Sussex, BN1 6JJ
All offers subject to availability. E&OE



Due to shortages of 3.5" DSDD disks, prices may change without notice



Back Issues

AMIGA FORMAT

186

SEPTEMBER 1992



ISSUE 1
The original: now a collector's item!



ISSUE 2
The first ever graphics round-up.



ISSUE 3
Majoring on music with a big release.



ISSUE 4
The complete story of the Amiga.



ISSUE 5
Explore the amazing world of 3D.



ISSUE 6
Simulation games: why are they such an obsession?



ISSUE 7
Learn to program with Dave Jones!



ISSUE 8
How to make great videos with your Amiga's help.



ISSUE 9
Multimedia: what is it, and what can it do for you?



ISSUE 10
Business software explained and the best game ever!



ISSUE 11
Chaos! The buzzword of the year, on the Amiga.



ISSUE 12
How to get into music, with a free covertape tune!



ISSUE 13
Games made from films: why are they always so poor?



ISSUE 14
Public Domain special: we pick out the best free software.



ISSUE 15
A real mixed bag, a trip around the world of the Amiga.



ISSUE 16
CDTV: the very first look at the future of home computers.



ISSUE 17
The first look at true colour, bringing 16 million colours!



ISSUE 18
Massive Christmas 1990 special with complete game!



ISSUE 19
Beginners' special, explains how to care for your Amiga.



ISSUE 20
The best there is in Amiga software chosen & explained.



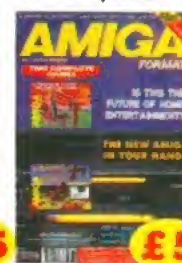
ISSUE 21
Paint programs: every single one tested and rated.



ISSUE 22
Samplers, scanners and digitisers can change your world.



ISSUE 23
3D secrets revealed, complete full-price game on disk.



ISSUE 24
CDTV exclusive, plus two complete full-price games!



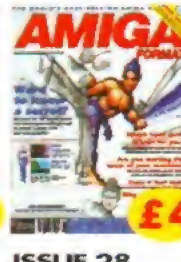
ISSUE 25
DTP explained plus the massive round-up of the year.



ISSUE 26
Deluxe Paint IV - exclusive disk demo and first review!



ISSUE 27
True Colour brings 16 million colours to your screen.



ISSUE 28
The secrets of game graphics revealed by Vivid Image.



ISSUE 29
First review of the A500 Plus, word processors tested.



ISSUE 30
Huge XMAS special with two complete full-price programs!



ISSUE 31
Beginners' special plus how to make your own games.



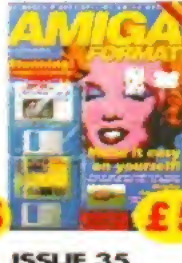
ISSUE 32
Every single CDTV disc available is under review.



ISSUE 33
Amazing fractal landscape program Vista on the disk, plus an enticing feature on how to create cartoons.



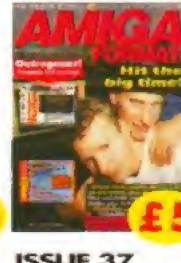
ISSUE 34
Full DTP program PageSetter plus the complete story of DTP: the jargon and the techniques are all explained.



ISSUE 35
What to do if you have the art or music program, but not the talent. Plus HAM point program Spectrator Jr.



ISSUE 36
With the multimedia program CanDo! Jr and the full low-down on the A600 and the CD-ROM drive!



ISSUE 37
The amazing story of musicians and artists who have made it big with an Amiga, plus Animation Station.



ISSUE 1
The complete game of Bombast! with the collectable first ever issue of Britain's most popular Amiga games mag
ISSUE 2
The complete arcade game Kid Gloves, plus the complete story of developers Bullfrog and much, much more.

Subscribe!



...and avoid the queues!

Come on! It's a safe bet you'll buy every issue of the world's best-selling Amiga magazine, anyway, so what possible reason can you have for not subscribing? **Think about it...**

For starters, you **save all the hassle** of going down to the shops and standing in line every time a new issue comes out. Instead, the magazine will be delivered straight to your door, usually **a couple of days before you can buy it in the shops!** Plus, you **save money** - 12 issues at £3.95 should cost £47.40, but you can get them for £44.95, postage is free and you save the bus fare! And you get a special **subscriber's newsletter** with exclusive behind-the-scenes details of the magazine every month. But there's more...

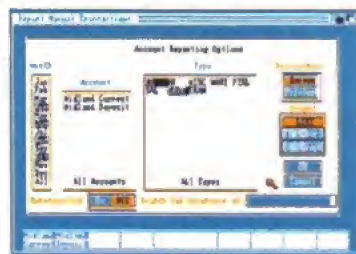
We'll even throw in something rather special for free too!



Harlequin
"23 levels of platform mayhem in search of a vital organ"
78% Amiga Format Issue 33



Chart Attack
Brilliant games collection featuring Robocod, Venus the Fly Trap, Lotus Esprit Turbo Challenge and Ghouls and Ghosts...



Home Accounts 1
Digita's DIY domestic budgeting system is still one of the most popular programs there is!



Two Free Issues
Alternatively, you can have the best free gift of them all - two extra issues of Amiga Format.

AMIGA FORMAT

187

SEPTEMBER 1992

Amiga Format **Subscription** Order Form

Yes! Please enter/renew my subscription to Amiga Format and send me the software of my choice

(tick as appropriate) **UK £44.95** **Europe £74.95** **Rest of the World £104.95**

Battle Isles **Robocod** **Home Accounts** **2 Extra Issues**

Amiga Format back issues, £4 each. Issues 23, 24, 30, 33 and 34, £5 each

(please indicate the issues you require) _____

Amiga Power back issues (tick as appropriate) **1** **2** **£5 each**

Name _____

Address _____

Post code _____

Telephone No. _____

Method of payment (please circle) Access • Visa • Cheque • PO Total Order _____

Credit Card No. _____ Expiry Date _____

SEND THIS FORM TO:
Amiga Format Subscriptions,
Future Publishing Ltd,
Somerton, Somerset,
TA11 6TB

Please make all cheques payable to
Future Publishing Limited.
This coupon is valid until
end of September 1992 AF/MAG/08

The New Amiga A600 Packs

Repairs

Our Service department can repair Amiga's in minimum time at competitive rates. We can arrange for courier pickup and return delivery of your machine to ensure it's safety. We even have a same day service which will ensure your machine is given priority and subject to fault, completed the same day. We can fit memory upgrades, ROM upgrades. We offer a Quotation service for £15 for which we will examine your machine and report back with an exact price for repair. If you do not wish to go ahead with the repairs then just pay the £15. However if you do go ahead then the charge is included in the minimum charge. Please note: The minimum charge covers labour, parts are extra.

New Amiga A600

£345

Includes: The new reduced size keyboard, internal modulator, 1Mb on board RAM, Workbench 2.05, Deluxe paint III and 1 exciting game. Will take smart cards. Also includes 12 months on site Warranty.

New A600HD

£455

Includes everything as above but with a 20Mb internal hard drive.

Quotation	£ 15
Min repair charge	£ 35.25
Courier Pickup	£ 11
Courier return	£ 6
Same day service	£ 15
1Mb Internal drive	£ 59.99
A520 Modulator	£24.99
A500 PSU	£39.99

GVP II Hard Drives

GVP SIMM's

GVP II A500 Hard drives include injection moulded styling, Internal RAM expansion to 8Mb via SIMM boards, Capacities from 52Mb, 3.5" 1ms Quantum mechanism, Internal Fan, Game switch and mini slot for future expansion.

2Mb SIMM Upgrade for GVP II

GVP 52Mb	£369
GVP 105Mb	£529
GVP 52Mb + 2Mb Simms	£434
GVP 52Mb + 8Mb Simms	£629

£49.99

4Mb SIMM Upgrade GVP II
£94.99

ROM's

ICD ROM sharers and ROM upgrades.

ROM Sharer	£24.99
1.3 ROM	£34.99
2.04 ROM	£49.99

Monitors

Disks



Printers

CDTV

Philips 8833MKII £ 199.99
Includes F19 and 12 months on site warranty.
Philips 15" FST Cube TV £ 259.99
Fastext, scart input TV near monitor quality.
Philips 15" FST Tv £ 229.99
Monitor cable £9.99

10 bulk disks	£4.94
50 Bulk disks	£22.91
100 Bulk disks	£41.13
40 disk box	£4.99
100 disk box	£7.99
120 disk box	£9.99
10 High Density	£9.99

Star SJ48 Bubblejet	£219
Star LC-20	£129
Star LC-200 colour	£179
Star LC-24/20	£189
Star LC-24/200	£209
Star LC-24/200 colour	£259

All Star printers include 12 months on site warranty
Add £3 for Centronics cable.

£479

Phone for: Ultimate Basketball, Falcon F16, Fun School 3, Dr Wellman, Defender of the Crown, Chaos in Andromeda, Psycho Killer, World Vista, Advanced military systems, Illustrated Holy Bible.

Golden Image 512K RAM Expansion with Clock

Only £19.99

The NEW *Brush* Mouse

- 150 Dpi resolution
- 500mm/SEC Tracking speed
- Switchable between Amiga/ST
- Opto/Mechanical Mechanism
- Includes Deluxe Paint III
- Direct mouse replacement

£24.99 with D-Paint £19.99 without D-Paint

GI Hand Scanner £119.99

The Golden Image Hand Scanner for the Amiga features a 105mm scanning head, variable contrast control, user selectable scanning resolutions of 100, 200, 300 and 400 Dpi, one letter mode for high contrast B/W images and 3 photo modes for various shades of grey. The high quality hardware is backed up by two of the most respected graphics packages around. Migraph's Touch Up for scanning and editing hires and grey scale images and Deluxe Paint III art package for colour.

- 100, 200, 300, 400 Dpi scanning resolution
 - 105mm scanning head
 - 1 letter mode, 3 photo modes
 - Includes Touch Up
 - Includes Deluxe Paint III
- Jin Scanner £99.99
Includes Dpaint III

GI Optical Mouse £24.99

The Official Golden Image Optical Mouse is a high quality, 3 button, replacement mouse. The fully optical mechanism means no moving parts and offers for higher reliability than opto/mechanical mice.

- 250Dpi, 500mm/sec tracking speed
- Fully Optical
- Mouse mat included
- Switchable Amiga/ST

GI External drive £54.99

The Golden Image External 3.5" Floppy drive for the Amiga features 880K formatted capacity, double sided double density, LED track counter, through port and data enable/disable..

- 880K Formatted capacity
- LED Track Counter
- Data Enable/Disable switch
- Daisy Chain Through Port

GI Mouse

The Golden Image Opto/Mechanical Mouse offers 290 Dpi resolution, 2 Microswitched buttons for greater reliability and crisper, more positive response. Anti-static silicone rubber coated ball. Also includes mouse mat.

Only £14.99

Jin Mouse

Don't be deceived by the low price of this mouse. Mass production of the Jin mouse has resulted in a high quality Opto/Mechanical mouse featuring 290 Dpi resolution, 500mm/sec tracking speed, Anti-static silicone rubber coated ball.

Only £9.99

Ladbroke Computing International

Ladbroke Computing International are the longest established Atari dealer in the UK. We have developed an extensive customer service policy which involves testing of all Hardware prior to despatch to ensure that goods arrive in working order offering free advice and support over the phone and keeping customers informed. Although our prices are not always the cheapest we do endeavour to offer consistently good service and backup. All prices correct at copy date 28/07/92 (while stocks last), and are subject to change without prior notice. All prices include VAT but exclude delivery. Add £5 for next working day courier delivery, add £10 for Saturday courier delivery (mainland UK only). Add £3 for postal delivery, only on items under £50 (check with staff before ordering). All prices available on Mail Order Shop prices may differ. Shop/Mail order premises: 33 Ormskirk Road, Preston, Lancs, PR1 2QP. Open Mon-Sat 9.30am-5.00pm. Phones answered from 9.00am. Ladbroke Computing International is a trading name of Ladbroke Computing Ltd. BFPO addresses overseas, deduct 17.5% VAT and add normal UK carriage.



Telephone (0772) 203166 FAX (0772) 561071

AMIGA REPAIRS

Repairs from £23.00 inclusive.

Free registered carrier pickup and return despatch for ultimate peace of mind, anywhere in the UK mainland!

Free diagnostic inspection.

Terms and conditions available on request.

All repairs carried out are covered by free 90 day warranty.

Fast efficient service, average diagnostic and repair time - 24 hours!

Experienced, qualified engineers.

Any upgrade fitting, fixed price £15.00 inclusive.



Business Enterprise Centre, Eldon Street,
South Shields, Tyne & Wear, NE33 5JE.

Telephone: 091-455 4300

Don't waste money buying a new machine, when you can upgrade at these prices!

SYSONS ASSOCIATES

Sole Distributor of Rossmoller Products in the UK

Quality German products at bargain prices with 12 months warranty!!

HARD DRIVES

	A500/500+	A1500/2000
43Mb NEC	£279.99	£269.99
52Mb Quantum	£319.99	£299.99
105Mb Quantum	£429.99	£419.99
210Mb Quantum	£689.99	£679.99

A500/500+ drives have external colour co-ordinated quality metal cases to improve durability and reduce radio interference. They also have a through port allowing further expansion. All Quantum drives have a 64K cache, improving access times dramatically. All come with SCSI interfaces and are auto-configuring and auto-booting (Kickstart 1.3 & higher). Fully compatible with Kickstart 2. Complete with utility software.

COMES READY FORMATTED - JUST PLUG IN & GO!

ACCELERATORS

Mech-2 for A500 & A2000, 68000-16 CPU with 16Kb cache doubles performance. Avoids incompatibility problems associated with 68020/30 accelerators. Also speeds access to chip memory. Socket for co-processor. A2000 version is supplied as a card. (Not for A500+) Please state model! £129.99

68881-20 Maths co-processor for Mech-2 £49.99

Speedy Doubles clock speed. The low cost method to increase performance. For all models inc A500+ £74.99

Turbo XT. Doubles XT bridge board performance £49.99

NEW PRODUCTS

U.K. LAUNCH OF "VIDEO STREAMER" - the low cost method of backing up your hard disk. Store up to 800 Megabytes on a normal VHS tape using your existing video recorder as a tape streamer. Easy to use. Saves on expensive tape streamers & cartridges. No need to waste time with endless floppy disk swapping. Needs no internal fitting - simply connect to the parallel port. Amiga, PC & Atari ST software available. Any one version of software included (state version) ONLY £224.99

MEMORY EXPANSION

1/2Mb RAM (A500) with on/off switch & clock, only 43mm in length! Low power 4-chip design, high accuracy clock. Mbit technology £24.99

2Mb RAM (A500) with high accuracy clock. Tops up your CHIP RAM and provides FAST RAM. Works with both FAT (512Kb) & FATTER (1Mb) AGNUS £89.99

1Mb RAM (A500+) Simply plug into trap door to give 2Mb chip RAM. Compact low power, high quality design using the latest ZIP RAMs £45.99

8Mb Board with 2Mb fitted (A1000) £149.99

8Mb Board with 0Mb fitted (A2000) £69.99

4-Megabit technology. Boards may be fitted with either 2Mb, 4Mb, 6Mb or 8Mb. Fully populated with only 16 RAM chips. Compatible with 68020/30 cards (A2630). For each 2Mb, please add £70. Free fitting if ordered with board. For example:

8Mb board with 2Mb fitted (A2000) £139.99

All memory expansions, except the 1/2Mb & A1000 board use latest ZIP RAM allowing a compact, power efficient design, putting less strain on your power supply!

SIMPLE INSTALLATION - NO SOLDERING!

OTHER PRODUCTS

Bootselector, allows use of the other floppy drives for booting. Works with both A500 & A2000 £14.99

Virus Trap, fits easily to the external floppy connector protecting all drives from boot block viruses. With on/off switch & indicator. A MUST for security £7.99

KickStart ROM switch. Avoid incompatibility problems. Upgrade now! This board allows you to use both 1.3 & 2.04 ROMs (Excluding ROMs) £14.99

CDTV OWNERS: Connect a keyboard with: IBM AT Keyboard Interface. Allows connection of a high quality, low cost AT compatible keyboard to any Amiga model (A500, 500+, 1000, 1500, 2000, 3000 and CDTV - please state model) ONLY £29.99

SPECIAL OFFER: Mouse Joystick Autoswitch, use both without unplugging. Save wear & tear on connectors and reduce possible repair bills. FULLY AUTOMATIC. Just connect & forget! £12.99

HOW TO ORDER

Please add £3 p&p. For orders over £100 please add £7 p&p. Cheques and Postal Orders payable to: SYSONS ASSOCIATES, Send to (Dept AFS), 98 Kenton Lane, Kenton, Harrow, Middx HA3 6UE.

Allow 5 working days for cheque clearance. No personal callers please.

12 MONTHS WARRANTY ON ALL PRODUCTS. TECHNICAL SUPPORT. Monday to Friday 1400-1700

TRADE ENQUIRIES WELCOME. Tel: 081-907 2100. Fax 081-909 1876.

Prices subject to change without notice. E & OE. All prices include VAT. All goods subject to availability. 16792.

Reach the top with.....

LCL Self-Tuition Courses

World leaders ● Hons graduate/teacher authors ● In educational softwarecharts. ● Excellent reviews ● £5 off total for 2, £10 off for 3.

MICRO GERMAN (Beginners - GCSE & business)

NEW

Complete course with real speech, adventure game and business letter generator, 24 programs + book and manual. Superb graphics & music. £24

MICRO FRENCH (Beginners - GCSE)

Complete course with real speech & graphics adventure game, 24 programs + a book and a manual. Superb graphics and music. £24

MICRO MATHS (11 years - GCSE)

Best selling GCSE maths course in UK. For ages 11 upwards in 24 program options plus a book and manual. Superb graphics and music. £24.

MICRO ENGLISH (8 years -GCSE)

Complete course. Also for EFL. Teaching spelling, reading, writing and oral with real speech, 24 programs and a book and a manual. Superb graphics and music. £24.

PRIMARY MATHS COURSE (3-12 YEARS)

Complete course with full screen colour graphics. NATIONAL CURRICULUM (Levels 1-4). 24 programs + a book and a manual. £24.

READING WRITING COURSE

NATIONAL CURRICULUM (A.T. 1-5) 24 program course teaching reading, writing & spelling with a book, manual and voice tape. £24.

MEGA MATHS (A level course)

Step-by-step course of 24 programs + a book and manual. Full screen graphics for calculus £24.



A500 PLUS OR AMIGA

PHONE NOW FOR IMMEDIATE DESPATCH

(*LCL courses are compatible with the N.C where appropriate) Update only £5 + proof of purchase. Send cheques/PO's (+99p P&P) or phone orders or requests for free colour poster/catalogue to:

LCL (DEPT AMF), THAMES HOUSE, 73 BLANDY ROAD, HENLEY-ON-THAMES, OXON RG9 1QB



or ring 0491 579345 (24 hrs)

Strategic Plus Software

Fast and Friendly Mail Order - Overseas orders welcome.

Phone 081 977 8088 Fax 081 977 4822

28 D&E The Courtyard, High Street, Hampton Hill, Middx. TW12 1PD.

VISIT our SHOP in Hampton Hill or send £2.50 for our NEW 8th Edition Catalogue

Sid Meier's

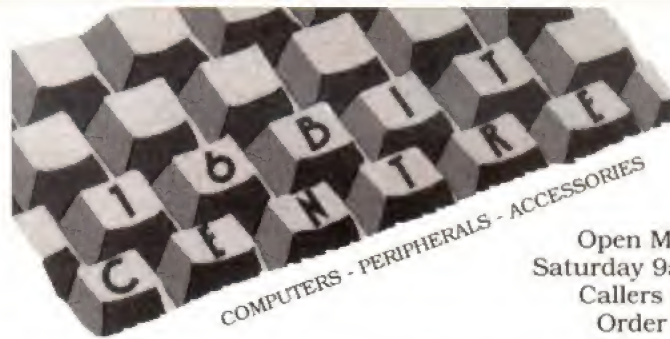
CIVILIZATION

Build An Empire To Stand The Test Of Time



**COMMODORE
1084S or 5 STEREO
MONITOR**
Including FREE lead
ONLY £209.00

**PHILIPS 8833 MK II
STEREO MONITOR**
Including
Free Lead
ONLY £209.00



COMPUTERS - PERIPHERALS - ACCESSORIES

Open Monday to
Saturday 9am -6pm
Callers and Mail
Order welcome
Easy parking

**KCS POWERBOARD
PC Emulator
For Amiga A500**
ONLY £179.00

**AT ONCE AMIGA
PC 286 AT EMULATOR
FOR A500**
ONLY £159.00

A600 Now in £360.
A600 Classics £375.
A600HD £459.
A600HD Classics £470

HARD DRIVES

GVP SERIES II 1500/2000 52Mb Quantum Space for 8Mb RAM £275.00	GVP SERIES II 1500/2000 105Mb Quantum Space for 8Mb RAM £389.00	GVP SERIES II 1500/2000 120Mb Quantum Space for 8Mb RAM £409.00	GVP SERIES II A500 52Mb Quantum Space for 8Mb RAM £349.00	GVP SERIES II A500 105Mb Quantum Space for 8Mb RAM £449.00	GVP SERIES II A500 120Mb Quantum Space for 8Mb RAM £499.00
---	--	--	--	---	---

AMIGA A500 FUN PACK

Amiga A500 Plus, Mouse, Modulator, Manuals, Workbench, Joystick, Disk Box,
10 Disks, Dust Cover, Dpaint III, 1Mb RAM, PLUS 13 GAMES Lemmings,
Simpsons, Captain Planet, Safari Guns, Bubble Ghost, Tin Tin, Purple Saturn Day,
Jumping Jackson, Hostages, Bobo, Krypton Egg, Shuffle Puck Cafe,
ONLY £399.00 inc VAT

KICK OFF 2 £9.50	HOME ACCOUNTS £9.95	QUANTUM SCSI DRIVE 52 MEG £199.00 105 MEG £289.00 120 MEG £329.00
-----------------------------------	--	--

A500 CARTOON CLASSICS Only £319.00

SOFTWARE

DELUXE PAINT II £4.35	PIXEL 3D V2 £79.00
AMOS + EXTRAS DISK £32.00	QUARTERBACK V5 £39.00
BROADCAST TITLER II £139.00	PRO-WRITE V3.2 £69.00
ULTIMATE DEMO MAKER £99.00	X CAD 3D £159.00
DIGIVIEW MEDIA STATION £119.00	PHOTON PAINT 2 £25.00
LATTICE C V5.10 £149.00	FINAL COPY £45.00
PAGESSETTER V2 £42.00	VIDEO EFFECTS 3D £99.00
PAGESTREAM V2.2 £127.00	DOS 2 DOS £28.00
PAGESTREAM FONTS pack £49.00	Q/BACK TOOLS £42.00
TV TEXT PRO £79.00	WORDWORTH £72.00
CROSS-DOS £19.00	SUPERJAM £85.00
SCENERY ANIMATOR £53.00	REAL 3D BEGINNERS £99.00
HITACHI VIDEO CAMERA. Ideal for use with DigiView £199.00	
PEN PAL. Excellent easy to use word processor £53.00	
IMAGINE 3D V2.0 Animations & ray-tracing £179.00	
ART DEPARTMENT PROFESSIONAL V2.05 £119.00	
DIRECTORY OPUS £29.95	
VIDEO EASE. Video titling package £35.00	
BARS + PIPES PROFESSIONAL £189.00	
AMOS COMPILER. Compile your Amos programs £23.00	
THE WORKS PLATINUM. Integrated package £39.00	
PRESENTATION MASTER £159.00	
VISIONARY Adventure creation language £53.00	
WALT DISNEY ANIMATION STUDIO £54.00	
REAL 3D TURBO/PROFESSIONAL £269.00	
PROFESSIONAL PAGE V2.1 with tutorial video £115.00	
PROFESSIONAL PAGE V3.0 New Version £129.00	

AMIGA A1500

The A1500 inc. Philips or CBM 1084s or 5 monitor, Twin drives, Dpaint3,
The Works Platinum, Home Accounts, 3 Games + Joystick
ONLY £739.00

AMIGA A500 part exchange available - please phone

ACCELERATORS

Microbotics Accelerator VXL-30, 25MHz £222.00
Microbotics Accelerator VXL-30, 40MHz £351.00
Speed Merchant Doubles Amiga Speed £149.00
GVP 68030 25MHZ WITH 1 MEG RAM £545.00
GVP 68030 40MHZ WITH 4 MEGS RAM £869.00
GVP 68030 50MHZ WITH 4 MEGS RAM £1279.00

HARDWARE

386/20 AT Bridgeboard For 1500/2000 £425.00
ROM V2.04 AND ECS DENISE NOW IN STOCK £34.00 each
ROM V2.04 Upgrade Kit £85.00
DCTV 24 bit colour graphics £419.00
ROCGEN PLUS GENLOCK £125.00
COMMODORE FLICKER FIXER £229.00
AMIGA COMPATIBLE DISK DRIVE on/off & through port £57.50
OTEC MOUSE high quality replacement mouse £22.50
TARGET Mono sound sampling hardware/software £19.00
NAKSHA SCANNER Excellent scanning quality £105.00
TV TUNER for Philips and Commodore monitors £79.00

PRINTERS

STAR LC-24/200 COLOUR inc. free lead £269.00
STAR LC200 9 pin colour inc. free lead £189.00
STAR LASER 4 high quality laser printer inc. free lead £679.00
CITIZEN SWIFT 24E 24 pin colour printer inc free lead £269.00
CITIZEN 224 COLOUR 24 pin colour printer inc free lead £239.00
CITIZEN SWIFT 9 COLOUR 9 pin colour printer inc free lead £189.00
CANON BJ10 EX bubble jet printer inc free lead £239.00
STARJET SJ48 bubble jet printer inc free lead £225.00
HP DESKJET 500 inkjet inc free lead £349.00
HP DESKJET 500 COLOUR inkjet inc free lead £539.00
CITIZEN 224 MONO 24 pin mono printer inc free lead £209.00

MEMORY

SUPRA RX500, 8Mb board for A500 with 1Mb £92.00
SUPRA RX500, 8Mb board for A500 with 2Mb £117.00
SUPRA RX500, 8Mb board for A500 with 4Mb £185.00
SUPRA RX500, 8Mb board for A500 with 8Mb £285.00
MICROBOTICS 8Mb Ram Board for A1500/B2000 with 2Mb £155.00
EXTRA 2 Mb OF RAM FOR MICROBOTICS £75.00
A500 512K RAM WITH CLOCK AND SWITCH £29.00
A500 PLUS 1MB RAM UPGRADE £39.00
ROM 1.3/2.0 Sharer With Switch (Rom 1.3 £22.00) £12.00
ROM 1.3/V 2.0 Sharer by Keyboard reset (Rom 1.3 £22.00) £22.00

MODEMS & FAX

B/Bandit 2400 Modem, V21, V22Bis & MNP 5 (speeds up to 4800) £105.00
Supra 2400 Plus, MNP5 & V42 Bis (speeds up to 9600) £129.00
Supra 9600 Fax Modem. Speeds up to 38000 £399.00
Supra 2400 Plus Internal Modem for A1500/B2000 £159.00
Tornado 14400 HST Fax Modem (Speeds up to 57000) NEW IN £499.00

HOW TO ORDER:
Either call our number
below with your credit
card details, or send
cheque/PO or credit
card details to our
address. Cheques made
payable to
THE 16 BIT CENTRE
Prices subject to change without
notification.

All prices include VAT and Courier Service

16 BIT CENTRE

Units 15-17,
Lancashire Fittings Science Village
Claro Road, Harrogate HG1 4AF

**EXTENDED WARRANTY
AND MAINTENANCE
CONTRACTS AVAILABLE
ON ALL ITEMS. PLEASE
CALL FOR FURTHER
DETAILS**



Tel (0423) 531822/526322

AUTHOR WRITES

 FROM: PERRY HAYNES,
 IRTHLINGBOROUGH

I plan to use my Amiga to write a book. To do this I'm going to need a word processor of some kind. Can you tell me which would be the best for the job, and, if as I suspect the best is expensive, what is a good cheap alternative?

I assume that you are planning to just write the words, and have no intention of designing the actual pages on your Amiga. If I were to write a book, my first choice would be *Protext* from Amnor, simply because it's very fast. All of the other word processors have functions to control layout and include pictures, but *Protext* is the best for pure input of words. At £150 for the very latest version, it is expensive. *Protext* 4.3 is nearly as good, but costs more like £70. Both come with a British spelling checker.

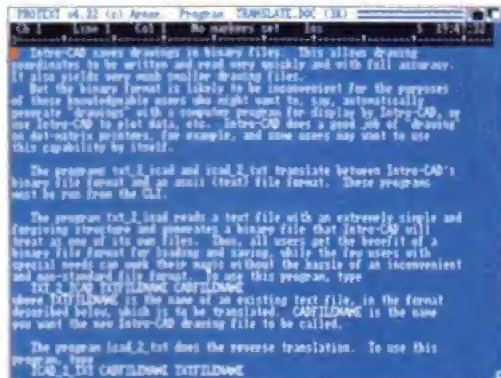
My second question is about faulty Coverdisks. Now, I realise that if I send them back within a month of the cover date, all is well. But I started buying the magazine six months before I got an Amiga, and I am only now finding some of them don't work. Do you make allowances for circumstances like these? What about the people who order back issues and find that the Coverdisks then don't work?

If you send them direct to the Monmouth Street office, addressed to Clare Hodgson, she will endeavour to sort out the situation. Please understand that this is not her main task on the magazine, and so no guarantee of when a replacement is sent back can be given. Also, the replacements lack labels because these are produced by a duplicating company and only a set number of them are printed.

Finally, I ended up buying one of the last A500s (1.3 type) as it was £100 cheaper than an A500 Plus or A600. The funny thing is that it has the same keyboard as a Plus – two extra keys. Is it just cosmetic, to allow for easier upgrading to the Plus standard? Or is it really a Plus in disguise? My guess is that

Workbench

Handy hints, technical tips, contentious issues and a whole bundle of information, finely sauteed by **Pat McDonald**.



This is the old style V4.3 of *Protext*, but nonetheless it is still up to the task of book authorship. Version 5 also has a Thesaurus when you need just the right word.

the former is true, but it would be nice to be proved wrong in this instance.

No, it's purely cosmetic, and inside the machine you'll find a Kickstart 1.3 ROM, an 8372A Agnus and an old style Denise. A far cry from a Plus. Still, you've got a natty keyboard.

RAINBOW POINTERS

FROM: MARK SMIDDY, CLEVELAND

If you've got Workbench 2 and you want your mouse pointer to have 16 colours then here's what you have to do. This is a bit wild, and terse, but believe me it does work!

- 1) Use any old paint package that can do 16-colour IFF brushes, and start off with a low-resolution screen with that many colours.
- 2) Draw your pointer design. It should be at most 16 pixels wide, and 125 pixels high.

- 3) Cut out the design as a brush.
- 4) Place the handle in the top-left corner.
- 5) Save the brush as RAM:ENV/SYS/POINT.ER.II.LBM. IPrefs will complain a bit. Don't worry. The new pointer will appear at this stage.
- 6) To make the change permanent, save the brush to SYS:PREFS/ENV-ARCHIVE/SYS/POINTER.II.LBM

This doesn't work with anim brushes, but it should work with all paint programs, provided they support 16-colour IFF brush protocols.

Thanks very much for that one Mark. Not a lot of use, but I guess some people have the time to spend whole days redesigning their Workbench to be as pretty as possible. Next please!

KICKSTART 2, PLEASE

 FROM: FS CR WILKINSON,
 RAF HONINGTON

I don't know if anyone else has an A2000HD or not. Am I alone? I doubt it, but it would seem so. I can't find anything about upgrading the A2000 to Workbench 2, Kickstart 2 and all the other Enhanced Chip Set that make the Amiga an even better machine.

Your advice on page 212 of *Amiga Format* Issue 31 was of some help, with its info on the chips and *SysInfo* prog which let me know what I've got to start with. But how to upgrade is a mystery to me. Will a ROM sharer work, and if so how do I go about upgrading?

Yes, a ROM sharer will work on an A2000. In fact, the only Amigas that they don't work with are the original A1000 or the A3000, which stores different Kickstarts on its hard disk. You can do this on any Amiga with a hard disk by using a PD program called *ZKick*, although I wouldn't advocate this except to real hardcase specialists. Especially because it takes up RAM.

Your best bet is to get hold of the official Commodore upgrade. Fitting the new Kickstart ROM is not too difficult a job, and all A2000s can have it without modification. Just take out the old and put in the new, or take out the old, plug it into a ROM sharer alongside the new and put the sharer into the socket.

Also, if I do/can upgrade, will this be compatible with a PC bridgeboard? Do I have to reformat my hard disks and lose all the programs that are Workbench 1.3 compatible? Could I have both versions of Workbench set up on the same hard disk?

Hmm, this is a good deal trickier. You will need a new version of the Janus Bridgeboard software – I've seen it so it should be available from dealers as we go to press. What I would do is to get a ROM sharer, and start off by using Workbench 2 from floppy only, keeping 1.3 on your hard drive. You don't have to lose anything from your hard drive – that's what back-up programs like *Quarterback* are for.

Continued overleaf

PAINTED KEYBOARDS

FROM: BARRY K HAMMOND, NORTHOLT

£50

Last week my ESC key, all the function keys plus some others stopped working. When I stripped down the keyboard I found that the keyboard membrane (the bit that bounces up and down) had a break on one track.

While phoning round the shops I found that



Amiga keyboards aren't infallible, but Barry Hammond has a top tip for repairing their membranes.

nobody sold just a membrane. I could buy a complete keyboard though – the average price was around £75. I also discovered that there are a lot of Amiga owners who have this trouble.

I didn't want to pay that kind of money, so I tried to fix it myself. I went to my local Halfords and purchased a bottle of electrical conducting paint. It's used in the car trade to repair heated rear windows, and the brand I used was called 'Electrocure' by Comma.

I bent the membrane very, very slightly and put a drip at the crack to make a contact. 25 minutes later I put on a second coat. I touched up all the cracks and waited for a couple of hours before putting the keyboard back together.

The keyboard now works perfectly well again. This trick should also work if any membrane tracks are rusty or corroded – just scrape the track very gently until you can see the conductor, then paint along it. The bottle of paint cost me £7.99 so I saved myself around 68 quid! And there's enough left to do maybe 25-30 repairs.

This trick is as old as electro-conductive paint, but I still reckon it's worth a £50 mail order voucher.



Having both versions of Workbench on your hard disk is possible, but it would require a fairly good knowledge of the Shell and startup-sequence editing, plus the PD program *MultiStartup* available on *Dr Yes Utils 1* from 17 Bit PD Library. Personally, I wouldn't bother – I'd reserve my hard drive for Workbench 2 (when you're happy with it) and only switch down to 1.3 when it is absolutely necessary.

TYRO QUESTIONS

FROM: PAUL CARVILL, BUXTON

I have recently sold my ST and bought a second-hand 1Mb A500. The Atari served me well but everyone has to eventually improve their system. I have to admit that the graphics are a lot better than I expected, and the sound chip gives excellent noise. However, I also noticed that the Desktop/Workbench had to be loaded from disk, which is a pain on a single disk-drive machine.

1) If I bought an external disk drive would I need a bigger power supply?

No. All A500 power supplies allow at least one extra drive and 1Mb of memory.

2) Is a hard disk a good investment because I enjoy the odd game but mainly use my Amiga for word processing, desktop publishing and graphics?

A hard drive is always a good investment if you want to save the time normally spent whistling while a floppy loads or saves. It depends on how much you value your time.

3) On my ST I had a high-resolution SM124 monitor. It gave excellent results when I used it for word



None of these floppy drives will overload the power supply of a 500. But more than one and you could have problems.

processing and DTP, but how do I go about getting a similar quality display on my Amiga?

What you need to get if you want a stable, high-resolution display is a flicker fixer. The only one available for the A500 is the ICD Flicker Free Video. This provides both horizontal and vertical synchronisation signals used by more expensive, 'multisync' monitors, as well as the analogue red, green and blue signals (hence the term RGB monitor). Check out the monitor roundup on pages 118-126 – you do at least have a choice of a viewing system.

4) Could you tell me if there's a hard drive with built-in memory expansion available?

GVP, Supra, Rochard, Protar, Ashcom, CBM A590 – most of them actually. The official A590 is the best budget buy, but it's comparatively slow, it only gives 2Mb of RAM and 20 Mb of storage space. The GVP is at the other end of the scale – it's faster, has more

expansion potential (8Mb and a PC emulator) and better software, but it costs a lot more too.

5) Could you explain what the difference is between chip memory and fast RAM?

Chip memory is accessible to all of the chips that are in the Amiga – not just the processor, but the custom chips too. These are: Agnus chip (graphics, blitter and copper); the Paula chip (sounds and disk drives); and Denise chip (video display, sprites and mouse movement).

All graphics and sounds have to be in chip memory, otherwise they cannot be displayed or played. Programs can also be stored in chip memory, but if so they are subject to being frozen from time to time while the custom chips strut their funky stuff.

Fast memory is only accessible by the processor, and so is never interrupted by the custom chips. It is the best place to run programs from. Some programs (typically older animation programs) insist on some fast RAM in order to work at all. However, because the A500 Plus and now the A600 have no fast RAM, this practise looks like dying out.

6) What happened to Kajagoogoo?

I presume they got filthy rich.

7) Are there any books for the absolute beginner? If so how much and how do you rate them?

Get the Most Out of Your Amiga 1992, by Phil South (see page 196), is good for understanding the potential of the machine. It's not perfect (the type in tutorial listings have aged somewhat) but it will illuminate you as to what you can do with your machine.

VISTA MANIA

FROM: MARK TIMMS, FREELAND

Recently I started playing around with *Vista* from Coverdisk 33. I'm really in to it now, I've got the manual and I am even thinking about buying *VistaPro 2* and possibly an accelerator board.

The trouble is that I'm OK at using the program, but the technical side of it totally misses me. I've just created an amazing landscape with rivers, lakes, waves, stars, the works. After waiting 45 minutes for it to render and spending another 15 admiring it, I tried to save it using the 'Save IFF' menu option, but all I got was a message telling me that *Vista* is full!

So could you tell me what files I can delete without butchering the program! It's so frustrating to do all that work, only to be stumped by a little thing like that.

No I won't. Instead, I'll show you how to save a picture onto a separate, blank disk. Get a large stack of new floppies, the more the merrier. Sit down for a couple of hours and format the lot of them, ready for use on your Amiga. It's a tedious activity, but someone's got to do it.

In the long run you will save sweat, blood, tears and all the bad vibes that go with needing a blank disk but not having one handy. If you've ever been forced to abandon a document, picture, animation or game-save position, you'll know what I mean.

Don't know how to format a blank disk? OK, I'll show you how. First, load up Workbench. Got that stack of disks handy? Good.



Once Workbench has loaded put a blank disk in the drive. It will whirr and an icon will show up saying 'DF0:BAD'. Click once on it with the left button. It will then be highlighted. Press and hold down the right mouse button. A set of menus will appear across the top of the screen.



Keep that right button down! Move the pointer up and to the left. For Workbench 1.3, you want to move to the Special menu, highlight 'Initialize' and then let go. For Workbench 2, move the pointer to the icons menu, highlight 'Format Disk' and let go.



A box will appear, asking you to put the Workbench disk back in because the program for formatting blank disks is kept on Workbench, not inside the machine. Check the write protect on the Workbench disk – if you can see through the hole in the disk, it is safe and protected.



After the format program has been read in, the computer will ask you to put the blank back in. Do so, making sure that you cannot see through the hole in the corner – otherwise it is safe and cannot be written on. Which means it can't be formatted. Which is not what you want!

A more in-depth (and more expensive) book is *Mastering Amiga Beginners* by Phil South. It costs £19.95 and has an ISBN of 1-87338-03-5 and is available from Bruce Smith Books (0923 894355). Although not as easy to get to grips with, it's much more of a hands on tutorial to master some of the fundamental Amiga skills

NO FUTURE?

FROM: DAVID LAWRENSON, CIRENCESTER
Six months ago I bought an A500 Plus and I have had a lot of enjoyment from it. Now I hear that Commodore have released the A600. I do have the money to get one, but is it worth it? I have over 30 games now, and I would like to know whether they will load on the A600? What I'm really worried about though, is that if I keep hold of my Plus will I still be able to get software for it in the future?

Well, if you have a Plus then there's no point in getting an A600, as they are basically the same machine in two different shapes. The advantage of the Plus (and earlier A500s) is that you can get monster expansions for them. The only advantage of an A600 is that it's very cheap to fit a hard drive to them.

Will you be able to get software for it? Programmers aren't stupid. Most Amigas out there in the UK and across Europe are A500s or Pluses. You don't seriously think they're going to write programs exclusively for the A600 do you? Sure, there will be smart card releases, but there will always be floppy based software from somebody, because it's so cheap to manufacture. At least for this decade.

I am also thinking about getting a freezer cartridge. What is the cheapest, best buy?

Continued overleaf



The machine will check with you that you really do want to format the disk. Click on 'Continue' to proceed, and the disk will be formatted. Once it has finished, be ready with the next blank until your whole stack is formatted.



Here we are in Vista. The 'Save IFF' option has just been chosen. At this point, take out the Vista disk, put in one of your blanks and click on the "DF0:" gadget. Then enter a file name as normal, and your picture will be saved to the blank, safe until you want it again.

Techno Babble

Do you know how to talk techie speak? Well if you don't then this little bit of jargon busting should sort you out!

Accelerator: hardware expansion that gives your Amiga a faster CPU. Often used with maths-intensive software where a standard processor is too slow, for programs called 'ray tracers' which literally trace the rays of light which bounce around a scene to produce a picture. Also used to considerably speed up flight and other kinds of simulations.

Anim Brush: a brush is a small section of a graphic screen, cut out with a paint program like *Deluxe Paint*. Anim brushes are different small images with the same dimensions – for instance, a bird flapping its wings or an eye blinking.

Blitter: Block Image Transfer device. Used for copying large areas of computer memory from A to B, or to combine different areas into one single image. Widely used to generate large graphic shapes in computer games.

Bridgeboard: Commodore's own IBM emulating device, featuring a complete PC computer on a single card. Only fits A1500 and above machines – allows use of standard PC cards.

Chip RAM: memory accessible by the custom chips (Paula, Agnus, Denise) as well as the processor. Used to store all graphics and sounds. Can be used by programs too – with speed slow downs.

CLI: Command Line Interface. The program which lets you type commands into AmigaDOS for standard operations like copying files or getting a directory. Shell is more commonly used now.

Copper: Co-processor. Used to generate subtly coloured backgrounds – this device built into the Agnus chip can alter colours while the screen is being generated. Executes instructions at the same time as the processor.

CPU: Central Processing Unit. The decision-making chip, the one that tells everything else what to do. It can be interrupted by custom hardware if its programs are in chip RAM.

Fast RAM: memory that's only accessible by the processor. Programs stored here run faster than those in chip RAM – hence the name.

Frame grabber: device for capturing live video data and converting it into computer picture data. Doesn't require a still video signal. Usually gives much better results than a video digitiser, which does the same job, except that the video must be paused.

Freezer cartridge: quasi legal device for examining programs while they are running. Usually with many useful built-in utilities which help overshadow the devices' dubious origins.

Hard drive: basically a big disk for keeping Workbench and all the serious software that you use. Works much faster than a floppy disk. More and more games are becoming installable on to a hard drive.

IFF: Interchange File Format. A standard way of storing pictures and sounds, invented by Electronic Arts and adopted by Commodore. A single standard – practically all art programs can load and save pictures in this form.

Kickstart: the name of the set of programs which are run when the Amiga is turned on. Also contains many library functions for use by programmers. Latest release is Kickstart 2.04. Other releases; 1.3, 1.2, 1.1.

PD: Public Domain. Literally, software that is the property of everybody. PD disks can be freely copied by anyone and you can also distribute them to whoever you want. The correct term is 'Freeware'. 'Shareware' (try before you buy) and 'Licenseware' (commercial and non-distributable) also come under the same rough heading.

ROM: Read Only Memory. Memory that cannot be altered. Widely used as the starting programs for computer systems that have just been turned on – they remember things permanently.

RAM: Random Access Memory. Memory that can be altered and realtered many times. Typically, it does not remember what it contains when the computer's power is switched off.

Scanner: hardware device for reading flat pictures from posters, newspapers and so on, and converting them into computer graphics. Often used in desktop publishing, to read in previously published images.

Script file: a set of commands which you would otherwise have to type into the CLI or Shell by hand. Saved as a text file. Learning how to use Shell or the CLI involves learning how to write script files.

Shell: more up-to-date version of CLI. Works in exactly the same way, but allows some flexibility in what commands are called via the 'alias' function. Also gives some hot key combinations to allow some editing of previously entered commands.

Sound Sampler: hardware device that converts electrical music signals (typically from a tape or CD player) into computer sound. Can also be used with a microphone to capture live sounds.

Sprite: a graphic object that is independent of the screen. On the Amiga, sprites are limited in size and colours. Typically used for mouse pointers, alien missiles, and so on.

Startup-sequence: the name of the script file, contained in the S directory, which is executed after a disk has booted. Typically contains just the name of a program to auto run, but can be very complicated. Whatever the nature of the file, it must always be called Startup-sequence and live in the S directory.

Workbench: the set of programs which sets up a graphical 'point-and-click' interface on the Amiga. Much more friendly than the CLI or Shell, but not as flexible. Always has to be loaded from disk, which is slow but does allow much customisation. Workbench 2 requires a Kickstart 2 ROM. Workbench 1.3 requires a 1.3 ROM, 1.2 needs a 1.2 ROM and so on.

Zorro: this the generic name for the Amiga's expansion connector. The A500, A500 Plus and A1000 had the original Zorro 1; the A1500s and the 2000s have Zorro II; and the A3000 has Zorro III. They are not compatible, hence the different expansions for different machines. The new A600 has a PC MCIA connector instead.



Turn to page 152 for the latest review of the Datel Action Replay III Cartridge, plus we should have the Power Computing cartridge up for review next month.

DISKS NOT DUFF

FROM: MARK PETTIT, BOLTON

Why is it that there are such great variations in the prices of blank disks? If you look through all the adverts in a typical edition of *Amiga Format*, you come across adverts for branded and unbranded disks. For example, in Issue 36, adverts state things like 'these disks are based on a <55% clipping level'. What does it all mean? Do companies expect people to buy their products when they don't even explain what they're selling?

Clip level is a rough approximation of how well a disk remembers data - how long it stays magnetic. The lower the value, the better the disk. The reason why disk prices vary so much is due to how many the advertiser buys at any one time from their supplier. The more they buy, the lower the price, which is then passed on to you.

Don't let it faze you. The process by which branded and unbranded disks are made is exactly the same. The difference is in how well the disks are sorted - what sort of quality control the brandee uses. Personally I prefer TDK, Maxell or 3M disks, because I have never had one that has developed a read/write error.

But it does happen to the best of them, eventually. Magnetic floppy disks are just as susceptible to the effects of time, if not more so, as magnetic tape used for music. Hence the importance of backing up disks.

TEACH QUESTIONS

FROM: RICHARD BINGHAM, LEICESTER

Our school has invested quite a fair amount of

money into Amiga technology, based around both the A500 and A500 Plus. The initiative arose because so many of the children had Amigas at home but only really used them for games, and so were unaware of its graphics and word processing capabilities. Once we installed Amigas at school and set some classes up, the children started to use the Amiga far more productively (to the delight of many parents). However there are still a few questions I would like to ask:

Since the arrival of the A600 should we be advising our children to continue buying the A500 Plus at a possibly reduced price or should we be advising them to go straight for the A600 at a higher price? This will apply to any new machines we purchase for the school. Will there be any compatibility problems between the two machines?

Well, the A500 Plus is going to get rather scarce soon, so it really doesn't look like your pupils or yourself will have much choice. You are wrong to think of the A600 as more expensive - the RRP is identical. OK, so dealers are hard pressed in these economically dire times, and price cuts abound.

In terms of software, there really isn't a lot of difference. To a disk, the A600 appears to be almost identical to an A500 Plus. The bad point about the A600 is that you can't add that much memory to it or upgrade the processor chip with an accelerator - yet.

We are looking for a relatively simple database program which will store information about the progress of children over a four-year technology course. The program must be user-friendly and reasonably fast in recording and retrieving information. Print outs are essential. Any suggestions?

The AMOS Database program itself should serve you very well. It costs £3.50 and is available from Deja Vu on 0942 495261.

Could you recommend any PD font disks that would appeal to children of 10-14 years?

I regret not, although if you contact any of the PD libraries advertising in the magazine they can sometimes forward example print outs of the contents of font disks, so that you can see what you are getting.

NO CHANCE MATEY

FROM: STEPHEN CREEK, AYLESBURY

In the Letters section of *Amiga Format* Issue 36, you mentioned that a third-party manufacturer was working on an adaptor that plugs into the A500 edge connector. This expansion then permits the use of A600 smart-card software.

Does this mean that the reverse is also possible, and an adaptor for the A600 could be made so that all A500 peripherals (hard drives, memory expansions, Action Replay and so on) could be plugged into an A600?

No I'm afraid this is not possible. To put matters simply, the PC MCIA connector of the A600 lacks a lot of the signals present on the edge connector of an A500 or A500 Plus. You cannot rewire what isn't there!

Also while on the subject, I wouldn't hold your breath for a smart-card adaptor for the A500. I doubt if it will appear before smart cards do, and smart-card software could in fact be years away. Remember, we're not talking about software houses slinging old product onto a ROM chip. There's a considerable amount of work to be done on smart cards before people cotton on to the advantages.

SPACED OUT

FROM: STEINAR THORSEN, NORWAY

I bought my A500 one year ago. I am a student, but I have managed to get enough cash to upgrade my beloved A500 several times. Here's a list of what I've got: 512K expansion in trapdoor, 2Mb fast RAM expansion (Supra500RX), 52 Mb Quantum hard drive (fitted internally via ICD AdIDE connector), two external floppy drives, MPS 1250 printer, Datel Sample Studio (which I hardly ever use).

Now I worry quite a bit about my Amiga, because it gets very hot very fast. It's jammed full of goodies and so the air cannot circulate. I thought of buying a Bodega Bay, it sounds ideal for my purpose. It has a cooling fan and a built-in chunky power supply.

The Bodega Bay also has four A2000-type expansion slots. I don't know if I need them just yet, but I plan to get an accelerator card in the future, so I might do.

Trouble is, I can't fit an A500 accelerator because there isn't space for one. As it is I had to remove the metal shielding (after consultation with CBM).

I'm sorry to bother you with these questions, but I could not get any answers from four different dealers. I don't understand it, I sell PCs and accessories and I am very happy when somebody comes to me in need of help...

Now to my questions!

1) Can I fit the Supra500RX into a Bodega Bay, or do I have to throw it away (not that I would).

No, it won't fit in an A2000 expansion slot. However, you could resell it and buy an A2000 RAM expansion. The point here is that A2000 RAM expansions cost less than equivalent A500 types. The reason is that A2000 expansions have no case or power connectors, and are just bare cards.

2) I have a half-height floppy disk drive and a 1011 drive. Could they both go into the Bodega Bay or would the 1011 have to stay outside?

They would probably both be all right on the inside, although I would personally keep one on the outside. If you need to have just one disk drive available (there is the odd piece of software that only works with one drive) then you'll be reaching for your screwdriver in no time.

3) Will I be able to fit A2000 accelerator cards to a Bodega Bay or not?

NO. A2000s have five different kinds of expansion slot: two bridgeboard slots; two PC slots for use with a Bridgeboard; five Zorro II slots (this is the type that Bodega Bay is equipped with); one processor slot for accelerator cards; and one video slot for flicker fixers, genlocks or a Video Toaster.

What I would do if I were in your situation is get the Bodega Bay, back-up your hard drive and sell it

and the SupraRAM. Then get a hard drive with memory expansion built in, and put your back-up on to that. The GVP Series II will serve you very well, believe me; my A2000 hasn't been without one since the day it arrived for review.

That frees up the CPU socket, which your hard-drive controller is occupying at the moment. Then you can fit an A500 accelerator card, if and when you decide to buy one. Plus you've got three more sockets for things like the VLab frame grabber, serial boards, network controllers or whatever else you want to expand your system with.

4) How about my sound sampler? Would it be possible to buy a standard parallel-port sound sampler and use that instead?

You can take the Datel sound sampler apart, and fit it into a Zorro II slot. No problem. The parallel port should be fine for fitting one of the more common samplers like *Technosound Turbo* - Bodega Bay doesn't affect this part of your Amiga at all.

5) Am I going to have to import an A1500 from England, as the Norwegian branch of Commodore does not seem to understand that Amiga owners are not just little children who simply want to play computer games all day?

You don't have to, but that is another alternative. Personally I'd stick with the A500 - if your Bodega Bay packs up, you've got a back-up system.

AMIGA PERIPHERALS



QUALITY AMIGA PERIPHERALS WITH A 2 YEAR WARRANTY

Silica Systems are pleased to present the GVP range of peripherals. GVP are the world's largest third party manufacturer of peripherals for the Amiga range and have a reputation for high specification, quality products. The company was founded only four years ago by a man who knows about the Amiga, Commodore's ex-Vice President of Technology. He, along with a team of Amiga experts including other ex-Commodore staff, understand the add-on requirements of Amiga owners better than anyone. Not only do GVP provide peripherals that Amiga owners want, they also offer peace of mind, with a 2 year warranty on the products they manufacture. So, if you are looking for the very best in peripherals for your Amiga computer, look no further than GVP.

GVP's HD8+ hard drive and A530 hard drive with 40MHz accelerator, represent the highest quality Amiga 500 peripherals, at very affordable prices. Each incorporates a Quantum disk drive, RAM expansion capability, custom VLSI chip and FAAASTROM SCSI driver, for unbeatable performance.

The HD8+ hard drive offers up to 8Mb of standard internal Fast RAM expansion and the A530 Combo, up to 8Mb of 32-bit wide fast RAM expansion. Both feature a SCSI controller, which supports up to 6 additional devices, and an Autoboot/Game cut-off switch. Both are available in 52, 120 and 240Mb hard drive versions.

In addition, the A530 Combo zooms the Amiga forward with an 030 accelerator, running at a blistering 40MHz. This enables your Amiga 500 to run at an incredible 12.1 MIPS, faster than an Amiga 3000! No other product in the world combines all the features found in the A530 Combo! A plug-in PC emulator option, shown below, is available for both the HD8+ and A530 Combo.



	HD8+	A530
HARD DRIVE		
QUANTUM SCSI HARD DRIVE 52, 120 & 240Mb VERSIONS	●	●
ULTRA FAST 15ns ACCESS	●	●
TRANSFER RATE UP TO 2.1MB/SEC**	●	●
**THE RATE OF THE 240Mb HD	●	●
ACCELERATOR		
40MHz 030/030 CPU	●	●
OPTIONAL 800Kc MATHS CO-PROCESSOR	●	●
RUNS AT 12.1 MIPS (40MHz) (3000)	●	●
HARDWARE SUPPORT TO RUN NECASTAR 800 32-bit WIDE FAST RAM FOR FASTER OPERATION (SEE CATALOGUE FOR OPERATING SYSTEMS)	●	●
RAM BOARD		
UP TO 8Mb OF 8 OR 64ns FAST RAM (8 OR 54 WIDE SIMMS - 120ns OR CLOSER)	●	●
UP TO 8Mb OF 32-bit WIDE FAST RAM (32-bit WIDE SIMMS - 60ns)	●	●
1Mb POPULATED	●	●
OTHER FEATURES		
HD/ACCELERATOR CUT-OFF SWITCH FOR 100% GAME COMPATIBILITY	●	●
SCSI CONTROLLER FOR UP TO 6 ADDITIONAL DEVICES	●	●
VLSI CUSTOM CHIP	●	●
FAASTROM SCSI DRIVER	●	●
IDENTICAL COLOUR & STYLING TO THE AM66	●	●
BUILT-IN VENTILATION FAN TO PREVENT THE UNIT FROM OVERHEATING	●	●
DEDICATED POWER SUPPLY	●	●
"MINI-SLOT" FOR FUTURE EXPANSIONS (I.E. PC EMULATOR)	●	●
REMOVABLE MEDIA SUPPORT	●	●
DIRECT MEMORY ACCESS (DMA) STYLE FOR ULTIMATE PERFORMANCE	●	●
EASY-TO-USE SOFTWARE	●	●
2 YEAR WARRANTY	●	●



HD8+

WHAT THE PRESS SAY:

'Superb build, excellent aesthetics and blinding speed make this the best A500 hard drive' ... AMIGA SHOPPER

'GVP claims this is the fastest hard drive in the world and none of our tests could prove that wrong.' AMIGA SHOPPER

'Overall: Untouchable. THE choice' AMIGA SHOPPER

'Still the best hard drive' ... 92% AMIGA FORMAT

PLUG IN HARD DRIVES & ACCELERATORS

PRICES FROM:

£379

MODEL	52Mb HD	120Mb HD	240Mb HD
HARD DRIVE HD8+	£379 <small>Ref. HAR 0852</small>	£499 <small>Ref. HAR 0820</small>	£779 <small>Ref. HAR 0842</small>
A530 COMBO HARD DRIVE & ACCELERATOR	£749 <small>Ref. HAR 0862</small>	£869 <small>Ref. HAR 0874</small>	£1149 <small>Ref. HAR 0886</small>

PC EMULATOR PLUG-IN OPTION FOR HD8+ & A530



- 16MHz 80286 processor
- 287 Maths Co-Processor socket
- 512K of PC RAM plus the use of Amiga RAM
- Supports Hercules, CGA, EGA/VGA (monochrome) and T3100 video modes
- Runs MS-DOS (3.2 and upwards) plus thousands of other PC programs

This powerful 286 emulator module simply plugs into the "mini-slot" of the GVP HD8+ or A530 (without invalidating the warranty). It has full access to the Amiga's resources and allows you to run PC and Amiga programs at the same time, giving you two computers in one.

£249
Ref. EMU 0800

FOR ALL AMIGAS

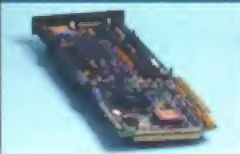
AMIGA 1500 + 2000 + 3000 PRODUCTS



SOUND SAMPLER

- 8-bit stereo sampler
 - Plugs into parallel port
 - MIDI support for song input
 - Extensive editing features
- For the semi-professional and audio hobbyist a high quality 8-bit stereo sound sampler that connects into the parallel port on any Amiga 500, 600, 1500, 2000 or 3000 computer. Combined with one of the fastest, most powerful and easy-to-use sound and music editing programs available. Includes 4-track soundtracker file compatible sequencer.

MUS 2500 **£59.95**



ACCELERATORS

- 68030/EC 68030/EC 68030 processor
 - 25/40/50MHz clock speeds
 - 68882 Maths co-processor
 - Expands to 13/16/18Mb 32-bit RAM
 - 32-bit SCSI controller on board
- Fast 68030/68030C accelerators with memory upgrade and SCSI interface boards. Each comes complete with a 68882 maths co-processor and RAM upgrade as standard. All available to mount 1" Hard Drive on any G-Force D30 Board, GVA 4251. £38.95

25MHz/1Mb Ref. LPO 0110 **£599**
40MHz/4Mb Ref. LPO 0432 **£999**
50MHz/4Mb Ref. LPO 0433 **£1399**



HARD CARDS

- Factory installed Hard Drives
 - 52, 120, 240 & 425Mb options
 - On-board 68k memory scopes
 - Add up to 6 SCSI devices
 - Easy to install SIMMS
- The Impact II HD8 hard cards are the equivalent of the HD8+ hard drive but for the 1500 and 2000 models. Not only are they some of the fastest hard drives available, but they also incorporate an unpopulated 8Mb RAM expansion board.

52Mb Ref. HAR 1352 **£299**
120Mb Ref. HAR 1420 **£449**
240Mb Ref. HAR 1542 **£699**
420Mb Ref. HAR 1542 **£1299**



VIDEO ENHANCER

- 768 x 580 PAL Resolution
 - Supports comp video, S-VHS & RGB
 - Broadcast quality gellock
 - Now with RGB splitter
- Impact Vision 24 is the latest 24-bit Professional Video Adapter. It features 16 million colours on screen at once, built-in genlock, flicker filter, frame buffer, frame grabber and digital keyer. Supplied with Caligari IV24 3D modelling and rendering software, Scala IV24 video tiling software, plus Macro Paint 24-bit paint package. A1500/2000 requires additional adaptor, GVA 5224. £99.95

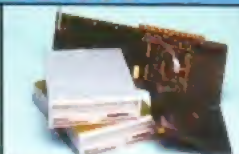
IV-24 - VDU SPLITTER Ref. VID 1124 **£1699**
IV-24 - VDU TRANSCODER Ref. VID 1124 **£2099**



RAM BOARDS

- Up to 8Mb of FAST RAM
 - Upgrade in 2Mb increments
 - Supports industry standard RAM chips
 - Diagnostic software included
 - Fully auto-configuring
- The RAM-8 offers an easy way to upgrade your 1500 or 2000 in 2Mb increments up to 8Mb. The RAM-3 is fully auto-configuring and is supplied with peace-of-mind diagnostic software. 8Mb configuration supported for bridgeboard owners.

0Mb populated Ref. RAM 2020 **£99**
IV-24 - VDU TRANSCODER Ref. VID 1124 **£2099**
2Mb populated Ref. RAM 2021 **£169**



REMOVABLE MEDIA

- Syquest 44 or 88Mb removable media
 - 20ms access time
 - GVP HC8 Controller option extra
 - External case available for A500/3000
- GVP offer Syquest drives with or without their HC8 controller. They are available in 44Mb and 88Mb capacities and have a 20ms access time. Each drive comes with a removable cartridge.

44Mb (88Mb Drive) Ref. HAR 1054 **£449**
44Mb (44Mb) Ref. HAR 1058 **£549**
88Mb (88Mb Drive) Ref. HAR 1019 **£599**
88Mb (44Mb) Ref. HAR 1061 **£699**

ALL PRICES INCLUDE VAT - DELIVERY IS FREE OF CHARGE IN THE UK MAINLAND

SILICA SYSTEMS OFFER YOU

- **FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland.
- **TECHNICAL SUPPORT HELPLINE:** Team of technical experts at your service.
- **PRICE MATCH:** We normally match competitors on a "Same product - Same price" basis.
- **ESTABLISHED 12 YEARS:** Proven track record in professional computer sales.
- **BUSINESS + EDUCATION + GOVERNMENT:** Volume discounts available 081-308 0888.
- **SHOWROOMS:** Demonstration and training facilities at our London & Sidcup branches.
- **THE FULL STOCK RANGE:** All of your requirements from one supplier.
- **FREE CATALOGUES:** Will be mailed to you with offers and software/peripheral details.
- **PAYMENT:** By cash, cheque and all major credit cards.

Before you decide when to buy your new Amiga products, we suggest you think very carefully about WHERE you buy them. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals and software, or help and advice. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for over 12 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".

MAIL ORDER HOTLINE
081-309 1111

SILICA SYSTEMS

MAIL ORDER:	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX	Tel: 081-309 1111 Fax No: 081-308 0808
LONDON SHOP:	52 Tottenham Court Road, London, W1P 0BA	Tel: 071-580 4000 Fax No: 071-323 4737
LONDON SHOP:	Selldidges (1st Floor), Oxford Street, London, W1A 1AB	Tel: 071-629 1234 Extension: 3914
SIDCUP SHOP:	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX	Tel: 081-302 8811 Fax No: 081-309 0017

To: Silica Systems, AMFOR-0992-68 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

PLEASE SEND A BROCHURE ON THE GVP RANGE

Mr/Mrs/Miss/Ms: Initials: Surname:

Address:

Postcode:

Tel (Home): Tel (Work):

Company Name (if applicable):

Which computer(s), if any, do you own? 68D

Get the most out of the Amiga Format Collection

Superb, complete full-price programs for practically nothing isn't the whole story of the **Amiga Format** Collection. You also have the chance to upgrade to new versions of the Collection programs at special prices. Here are the options on offer...

Please note: you do not have to return your Amiga Format Collection Coverdisk to take advantage of any of these upgrade offers.

CANDO! - LATEST VERSION



SPECTRACOLOR



PAGESETTER 2



AMIGA FORMAT

Innovatronics have been listening to requests from people who used the original version of this powerful multimedia package, and the latest version 1.6 of the full professional CanDo! program has a number of updates in accordance with their requests. Among these is full support for the gameport device, which means you can even write games with it! The program comes with a full and detailed manual, which could make all the difference for aspiring CanDo! programmers.

Oxxi-Aegis actually produced SpectraColor before they made the junior version featured on the Collection Coverdisk. It was the first HAM paint program to use full brush animation, in the style of Deluxe Paint. Its powerful features make it a must for anyone who wants to do real animation in 4,096 colours, and it also has a number of unique ideas that you can't get in any other paint program. Naturally, it also comes complete with an excellent manual.

Completely rewritten in machine code throughout for extra speed, Gold Disk's updated version of the beginners' layout program takes a different approach from the original. Rather than having separate text editing and picture editing modules, it now lets you edit text on the page. It also uses Compugraphic scalable fonts throughout, so extra quality on printout is guaranteed. All in all, this is the next best thing to professional-quality DTP on the Amiga. Full manual included.

Description.....Price.....Order No
CanDo!.....£89.95.....CANUP

Description.....Price.....Order No
Spectracolor.....£29.99.....SPECTUP

Description.....Price.....Order No
PageSetter 2.....£49.99.....PAGEUP

AF Collection Order Form

Name _____
Address _____
Postcode _____
Telephone No _____

Description	Price	Order No
Total Order		

Method of payment (please circle) Access Visa Cheque PO
Please make all cheques payable to Future Publishing Limited.
Credit Card No _____

SEND THIS FORM TO: Amiga Format, Future Publishing Ltd, Freepost, Somerton, Somerset TA11 7BR

No stamp required if posted in the United Kingdom, Channel Island or the Isle of Man

For overseas orders call Nikki for prices on 0458 74011

BACK ISSUES WITH AMIGA FORMAT COLLECTION COMPLETE PROGRAMS

If you missed out on any of the **Amiga Format** Collection programs, why not buy the magazine as a back issue? Back issues come complete with all the relevant disks. Here's what you get with what...

Issue 33, April 1992
Amiga Format Collection disk
Vista, an amazing fractal landscape generator that is both useful and fun
Price £5 Order number AMF33

Issue 35, June 1992
Amiga Format Collection disk
SpectraColor Jr, a full-featured 4,096-colour HAM paint package
Price £5 Order number AMF35

Issue 34, May 1992
Amiga Format Collection disk
PageSetter 1.2, DTP with word processing and graphics editing
Price £5 Order number AMF34

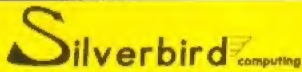
Issue 36, July 1992
Amiga Format Collection disk
CanDo! Junior, the powerful multimedia programming system
Price £5 Order number AMF36

AMIGA KEYBOARD OVERLAYS

...now you can write the keyboard commands on the keyboard!
...no more referring to the manual for which key does what



Get one for each of your favourite programs and speed up the human interface - brilliant for flight and other simulators, and for games, music, graphics, DTP, word processors, programmers & all.



Cheques and money orders only to **Silverbird, Dept. AF9, 47 Barton Road, Harlington, Bedfordshire LU5 6LG, England.**
For all Amigas except A1000, CDTV, A600.
Sold only in packs of five for £5.20 PLUS post and packing:
UK 80p, Europe & BFPO £1.50. Rest of the World £2.50

BUILD YOUR OWN ROBOT

With the **AMIGA INPUT/OUTPUT PORT** £27.95
Now you can use your Amiga to switch electric motors, respond to sensors and control robotic devices. 11 Outputs for motors etc. Up to 13 inputs for sensors + 2 analog inputs. Easy to program in AMIGA BASIC, AMOS, GFA & HUSOFT. Simple programming commands: eg TURNON (1), 21 page User Manual. We pay for small programs you write for the port.



AMAZING SENSOR & CONTROL EXPERIMENTERS KIT

£27.95 £1 OFF if purchased with I/O Port
6 Electronic projects which plug into the I/O port. No soldering required. Includes relay module, motor tilt sensor, reed switch, light bulb, 4 LEDs, powerful software on disk (available separately for £4) and FREE 'Guide to Amiga Interfacing'.

Just released, dual motor controller module £17.95. Any two small motors: Forward/reverse/speed control + brake. Plugs into just four I/O channels. Ideal for buggy kit (£39.90)

TEMPERATURE & LIGHT EXPERIMENTERS KIT

£11.95
Thermo & Photo sensors which plug into the analog inputs + 'Amirol' software. Mains controller module £24.95 (Standard mains sockets, handles 15 amps). PHONE FOR FREE ADVICE ON CONSTRUCTION OF ROBOTS AND ARMS ETC.

MAINS CONTROLLER MODULE

£25.95
(3 pin socket) Handles 15 amps.

Please send cheque payable to SWITCHSOFT or ring Switchsoft on 0325 464423. Prices include P&P Overseas add £4.

SWITCHSOFT Dept AF992
26 Ridgeway, Darlington,
Co. Durham DL3 0SF

UNCONDITIONAL GUARANTEE
If not completely satisfied, you may return any product within 14 days for a full refund.



DATAPLEX COMPUTERS LTD.

129 Bath Road,
Slough,
Berkshire,
SL1 3UW
Tel: 0753 535557

19 High Street,
Old Town,
Swindon, Wilts
Tel: 0793 488448

SHOWROOM
open:
Mon - Fri
9.30 - 5.30
Saturday
9.30 - 4.30
MAILORDER
Consumables
add £2.50
Hardware
add £10.58
(courier)

AMIGA A500 PLUS (CARTOON CLASSIC PACK)

Includes new A500 Plus with 1Mb RAM, Lemmings, The Simpsons, Captain Planet, Deluxe Paint III
£330 inc VAT

AMIGA 600

With free game
£365 inc VAT

AMIGA 600

plus 20 meg hard drive
£465

ADDITIONAL PACKS

Amiga A500 Plus Cartoon Classics with 10 extra games£359
A500 Basic Pack (stand alone old version) plus 10 extra games plus Photon Paint plus GFA Basic.....£295

ACCESSORIES

512K Ram + clock£35.00
1 Meg Ram + Clock£115.00
A500 Power Supply Unit£39.00
Naksha Mouse plus Operation Stealth £29.00
1Mb Upgrade for A500 Plus£49.00
14" screen filter£17.00

MONITORS

Philips CM8633 MK II Colour Monitor + FREE Lead £210 inc VAT
inc 1 year on-site maintenance

PRINTERS

Star LC20 Mono£135
Star LC200 Colour (9 pin)£188
Star LC24-20 (24 pin)£195
Star LC24 200 Colour (24 pin)£258
Panasonic KXP11241£235
Panasonic KXP 1123£185
Citizen 120D£125
Citizen Swift 24E + Colour Upgrade£290
Citizen Swift 9 + Colour Upgrade£195
Starjet Bubblejet Printer, SJ48£229
Canon BJ10EX£234
HP Deskjet 500 + Leads£352
HP Deskjet 500 (colour)£499
Sheetfeeder£58

All above come complete with leads

SPECIAL OFFER HYUNDAI PRINTER

Epson/IBM compatible 9 pin Black (wide carriage)
£119 inc VAT

AMIGA HARD DRIVES / HARD CARD (GVP SERIES II)

FOR A1500
52Mb h/card (0-8Mb)£275
120Mb h/card (0-8Mb)£445
FOR A500
52Mb h/card (0-8Mb)£365
105Mb h/card (0-8Mb)£525
Upgrade the above with 1Mb SIMM module £39

VORTEX AT ONCE PLUS

PC Emulator for A500, A500 plus and A1500
£199 inc. VAT

AMIGA DRIVES

1 Meg 3.5" Internal£55
1 Meg 3.5" External (Cumana)£57

SUMMER SALE!

Featuring ... TECHNOSOUND Turbo

BRITAIN'S No1 Sound Sampling System

"EVERY AMIGA OWNER SHOULD HAVE IT" - Amiga Format

ONLY **£27.99** NORMAL RRP **£39.99** **SAVE £12**

ROMBO

Complete Colour Solution£95.99 **SAVE £83**

Vidi Amiga£47.99 **SAVE £83**

RGB Colour Splitter£47.99 **SAVE £32**

Take 2 Animation£49.99 **SAVE £50**

DAaTA SCAN Pro GS V2.02 **PANDAAL HAND SCANNER with latest grey scale software £95.99** **SAVE £54**

PLEASE NOTE: These crazy prices will only apply whilst stocks last - or until our Marketing Manager completes his medication • whichever is the sooner •

FIRECREST DISTRIBUTION
P.O. Box 39,
ABERGAVENTNY, GWENT NP7 6XL.
TEL (0873) 850028

ADD £2.00 PER ITEM P&P



K2 SOFTWARE **OPENING HOURS MON-SAT 9am - 10pm**
35 EDGEHILL STREET **ANSWERPHONE OPERATES**
READING, BERKSHIRE RG1 2PU **OUTSIDE THESE HOURS**
0734 583063

ACCOUNTS	DATABASES	DESKTOP PUBLISHING
Amiga Accounts 10.95	Amiga Databases 18.95	Amiga Desktop Publishing 20.95
Amiga Accounts 20.95	Amiga Databases 28.95	Amiga Desktop Publishing 30.95
Amiga Accounts 30.95	Amiga Databases 38.95	Amiga Desktop Publishing 40.95
Amiga Accounts 40.95	Amiga Databases 48.95	Amiga Desktop Publishing 50.95
Amiga Accounts 50.95	Amiga Databases 58.95	Amiga Desktop Publishing 60.95
Amiga Accounts 60.95	Amiga Databases 68.95	Amiga Desktop Publishing 70.95
Amiga Accounts 70.95	Amiga Databases 78.95	Amiga Desktop Publishing 80.95
Amiga Accounts 80.95	Amiga Databases 88.95	Amiga Desktop Publishing 90.95
Amiga Accounts 90.95	Amiga Databases 98.95	Amiga Desktop Publishing 100.95
Amiga Accounts 100.95	Amiga Databases 108.95	Amiga Desktop Publishing 110.95
Amiga Accounts 110.95	Amiga Databases 118.95	Amiga Desktop Publishing 120.95
Amiga Accounts 120.95	Amiga Databases 128.95	Amiga Desktop Publishing 130.95
Amiga Accounts 130.95	Amiga Databases 138.95	Amiga Desktop Publishing 140.95
Amiga Accounts 140.95	Amiga Databases 148.95	Amiga Desktop Publishing 150.95
Amiga Accounts 150.95	Amiga Databases 158.95	Amiga Desktop Publishing 160.95
Amiga Accounts 160.95	Amiga Databases 168.95	Amiga Desktop Publishing 170.95
Amiga Accounts 170.95	Amiga Databases 178.95	Amiga Desktop Publishing 180.95
Amiga Accounts 180.95	Amiga Databases 188.95	Amiga Desktop Publishing 190.95
Amiga Accounts 190.95	Amiga Databases 198.95	Amiga Desktop Publishing 200.95
Amiga Accounts 200.95	Amiga Databases 208.95	Amiga Desktop Publishing 210.95
Amiga Accounts 210.95	Amiga Databases 218.95	Amiga Desktop Publishing 220.95
Amiga Accounts 220.95	Amiga Databases 228.95	Amiga Desktop Publishing 230.95
Amiga Accounts 230.95	Amiga Databases 238.95	Amiga Desktop Publishing 240.95
Amiga Accounts 240.95	Amiga Databases 248.95	Amiga Desktop Publishing 250.95
Amiga Accounts 250.95	Amiga Databases 258.95	Amiga Desktop Publishing 260.95
Amiga Accounts 260.95	Amiga Databases 268.95	Amiga Desktop Publishing 270.95
Amiga Accounts 270.95	Amiga Databases 278.95	Amiga Desktop Publishing 280.95
Amiga Accounts 280.95	Amiga Databases 288.95	Amiga Desktop Publishing 290.95
Amiga Accounts 290.95	Amiga Databases 298.95	Amiga Desktop Publishing 300.95
Amiga Accounts 300.95	Amiga Databases 308.95	Amiga Desktop Publishing 310.95
Amiga Accounts 310.95	Amiga Databases 318.95	Amiga Desktop Publishing 320.95
Amiga Accounts 320.95	Amiga Databases 328.95	Amiga Desktop Publishing 330.95
Amiga Accounts 330.95	Amiga Databases 338.95	Amiga Desktop Publishing 340.95
Amiga Accounts 340.95	Amiga Databases 348.95	Amiga Desktop Publishing 350.95
Amiga Accounts 350.95	Amiga Databases 358.95	Amiga Desktop Publishing 360.95
Amiga Accounts 360.95	Amiga Databases 368.95	Amiga Desktop Publishing 370.95
Amiga Accounts 370.95	Amiga Databases 378.95	Amiga Desktop Publishing 380.95
Amiga Accounts 380.95	Amiga Databases 388.95	Amiga Desktop Publishing 390.95
Amiga Accounts 390.95	Amiga Databases 398.95	Amiga Desktop Publishing 400.95
Amiga Accounts 400.95	Amiga Databases 408.95	Amiga Desktop Publishing 410.95
Amiga Accounts 410.95	Amiga Databases 418.95	Amiga Desktop Publishing 420.95
Amiga Accounts 420.95	Amiga Databases 428.95	Amiga Desktop Publishing 430.95
Amiga Accounts 430.95	Amiga Databases 438.95	Amiga Desktop Publishing 440.95
Amiga Accounts 440.95	Amiga Databases 448.95	Amiga Desktop Publishing 450.95
Amiga Accounts 450.95	Amiga Databases 458.95	Amiga Desktop Publishing 460.95
Amiga Accounts 460.95	Amiga Databases 468.95	Amiga Desktop Publishing 470.95
Amiga Accounts 470.95	Amiga Databases 478.95	Amiga Desktop Publishing 480.95
Amiga Accounts 480.95	Amiga Databases 488.95	Amiga Desktop Publishing 490.95
Amiga Accounts 490.95	Amiga Databases 498.95	Amiga Desktop Publishing 500.95
Amiga Accounts 500.95	Amiga Databases 508.95	Amiga Desktop Publishing 510.95
Amiga Accounts 510.95	Amiga Databases 518.95	Amiga Desktop Publishing 520.95
Amiga Accounts 520.95	Amiga Databases 528.95	Amiga Desktop Publishing 530.95
Amiga Accounts 530.95	Amiga Databases 538.95	Amiga Desktop Publishing 540.95
Amiga Accounts 540.95	Amiga Databases 548.95	Amiga Desktop Publishing 550.95
Amiga Accounts 550.95	Amiga Databases 558.95	Amiga Desktop Publishing 560.95
Amiga Accounts 560.95	Amiga Databases 568.95	Amiga Desktop Publishing 570.95
Amiga Accounts 570.95	Amiga Databases 578.95	Amiga Desktop Publishing 580.95
Amiga Accounts 580.95	Amiga Databases 588.95	Amiga Desktop Publishing 590.95
Amiga Accounts 590.95	Amiga Databases 598.95	Amiga Desktop Publishing 600.95
Amiga Accounts 600.95	Amiga Databases 608.95	Amiga Desktop Publishing 610.95
Amiga Accounts 610.95	Amiga Databases 618.95	Amiga Desktop Publishing 620.95
Amiga Accounts 620.95	Amiga Databases 628.95	Amiga Desktop Publishing 630.95
Amiga Accounts 630.95	Amiga Databases 638.95	Amiga Desktop Publishing 640.95
Amiga Accounts 640.95	Amiga Databases 648.95	Amiga Desktop Publishing 650.95
Amiga Accounts 650.95	Amiga Databases 658.95	Amiga Desktop Publishing 660.95
Amiga Accounts 660.95	Amiga Databases 668.95	Amiga Desktop Publishing 670.95
Amiga Accounts 670.95	Amiga Databases 678.95	Amiga Desktop Publishing 680.95
Amiga Accounts 680.95	Amiga Databases 688.95	Amiga Desktop Publishing 690.95
Amiga Accounts 690.95	Amiga Databases 698.95	Amiga Desktop Publishing 700.95
Amiga Accounts 700.95	Amiga Databases 708.95	Amiga Desktop Publishing 710.95
Amiga Accounts 710.95	Amiga Databases 718.95	Amiga Desktop Publishing 720.95
Amiga Accounts 720.95	Amiga Databases 728.95	Amiga Desktop Publishing 730.95
Amiga Accounts 730.95	Amiga Databases 738.95	Amiga Desktop Publishing 740.95
Amiga Accounts 740.95	Amiga Databases 748.95	Amiga Desktop Publishing 750.95
Amiga Accounts 750.95	Amiga Databases 758.95	Amiga Desktop Publishing 760.95
Amiga Accounts 760.95	Amiga Databases 768.95	Amiga Desktop Publishing 770.95
Amiga Accounts 770.95	Amiga Databases 778.95	Amiga Desktop Publishing 780.95
Amiga Accounts 780.95	Amiga Databases 788.95	Amiga Desktop Publishing 790.95
Amiga Accounts 790.95	Amiga Databases 798.95	Amiga Desktop Publishing 800.95
Amiga Accounts 800.95	Amiga Databases 808.95	Amiga Desktop Publishing 810.95
Amiga Accounts 810.95	Amiga Databases 818.95	Amiga Desktop Publishing 820.95
Amiga Accounts 820.95	Amiga Databases 828.95	Amiga Desktop Publishing 830.95
Amiga Accounts 830.95	Amiga Databases 838.95	Amiga Desktop Publishing 840.95
Amiga Accounts 840.95	Amiga Databases 848.95	Amiga Desktop Publishing 850.95
Amiga Accounts 850.95	Amiga Databases 858.95	Amiga Desktop Publishing 860.95
Amiga Accounts 860.95	Amiga Databases 868.95	Amiga Desktop Publishing 870.95
Amiga Accounts 870.95	Amiga Databases 878.95	Amiga Desktop Publishing 880.95
Amiga Accounts 880.95	Amiga Databases 888.95	Amiga Desktop Publishing 890.95
Amiga Accounts 890.95	Amiga Databases 898.95	Amiga Desktop Publishing 900.95
Amiga Accounts 900.95	Amiga Databases 908.95	Amiga Desktop Publishing 910.95
Amiga Accounts 910.95	Amiga Databases 918.95	Amiga Desktop Publishing 920.95
Amiga Accounts 920.95	Amiga Databases 928.95	Amiga Desktop Publishing 930.95
Amiga Accounts 930.95	Amiga Databases 938.95	Amiga Desktop Publishing 940.95
Amiga Accounts 940.95	Amiga Databases 948.95	Amiga Desktop Publishing 950.95
Amiga Accounts 950.95	Amiga Databases 958.95	Amiga Desktop Publishing 960.95
Amiga Accounts 960.95	Amiga Databases 968.95	Amiga Desktop Publishing 970.95
Amiga Accounts 970.95	Amiga Databases 978.95	Amiga Desktop Publishing 980.95
Amiga Accounts 980.95	Amiga Databases 988.95	Amiga Desktop Publishing 990.95
Amiga Accounts 990.95	Amiga Databases 998.95	Amiga Desktop Publishing 1000.95

NAME _____

ADDRESS _____

PLEASE SUPPLY _____ QTY _____ PRICE _____

TOTAL _____

All prices include postage and packing in UK. Make cheques and POs payable to K2 SOFTWARE. PRICES SUBJECT TO CHANGE. ALL ITEMS SUBJECT TO AVAILABILITY PHONE FOR OVERSEAS ORDERS.

SEPTEMBER 1992 AMIGA FORMAT SEPTEMBER 1992

SEPTEMBER 1992

197

Answerfile

Another roundup of quickfire questions and answers, including a special section on CanDo queries. Chaired by **Pat McDonald**.

Q I have followed your Beginners section with great interest, especially the tutorial on creating a self booting disk (see *Amiga Format* 35). I would prefer though for my disks to end at Workbench, with icons to click on to show various pictures and text files. How do I do this?

A The place to start is with one of our recent Coverdisks. Take a good look at it through Shell or the CLI, especially the startup sequence. Only the commands Setpatch, Binddrivers, Loadwb and Endcli are used, in that order. Naturally all are contained in the C directory, as is *PPMore*, which is used to display text files. In order to use icons on a disk, the icon.library file will have to be in the Libs drawer.

Once you get to the stage where you can boot up a cut down Workbench from its own disk, then the fun begins. To make a data file (picture or text file) display, you have to have a separate program on the disk to do this - use *Vilbm* pictures and *PPmore* for text.

There are alternative displayer programs available, but these are the ones I use. The *View* program from *Animation Station* can be used to display animations.

To set up the display program with the data file, you have to alter the tool types in the information window of the icon. This is best done by booting with Workbench first, and then using it to alter your stand alone disk. How do you alter the tool types? When Workbench has finished booting, insert your stand alone disk. Double click on its icon, and click once on one of your data icons, to highlight it. Then keep the right mouse button pressed down, and select info (for Workbench 1.3 or earlier) or Information (for Workbench 2) from the menus that are at the top of the Amiga's screen.

The info screen will appear. Click in the window marked tool types, and a little cursor should appear to let you type - if it doesn't click on the Add button first. Then type in the exact path and name of the utility you want to use to show the file. Finally click on Save, and your icon is already to be clicked on!



Most, but not all, samplers include the sampler hardware necessary to sample sound from a microphone or hi-fi.



Audio Engineer does not only come with the best software (*Audio Master*) but also this sexy piece of sampling gear.

Q Can RAM in a hard drive or external memory expansion be configured as chip RAM?

A No. Never. Not at all. Forget it, not in a million years. Get the message?

Q Where can I get *Paint Pot 2* from?

A You can get the full program from Prisma Software, 29 St James' Avenue, Upton Heath, Chester CH2 1NB. Telephone 0244 326244.

Q Do all sound samplers come equipped with sampler hardware?

A Usually. The only ones that don't are *Audio Master* (which is the software from *Audio Engineer*) and *Audition 4*. All the others do come with sampler hardware.

Q Is it possible to join together A500 trapdoor RAM expansions?

A It is possible (the Megaboard from Evesham Micros does this) but I wouldn't advocate it. Judging from the letters from various readers, it doesn't work that well at all. A RAM expansion that plugs into the left-hand side of the machine is much more convenient - just plug in and go, no messing. My favourite is the *SupraRAM 500RX*.

CanDo Queries



The *CanDo* multimedia program was given away as part of the *Amiga Format* Collection on Issue 36.

I can't seem to de-Mash the *CanDo Jnr* program properly. I keep getting CRC error. Is this a problem with the disk or not?

Usually it is. Most of the disk contains the DMS files (*Cando1.DMS* and *Cando2.DMS*). If these contain a read/write error, then the *Disk Masher* program will not be able to unarchive the disk properly, and will simply give a CRC error.

However, the *Disk Masher* program does not work on certain Amigas. People who have had a replacement

which still doesn't de-Mash have two options; they can either find someone local to them with a different kind of Amiga, and de-crunch the files on that.

Alternatively, send it to: A600 *CanDo Returns*, *Amiga Format*, 30 Monmouth St, Bath BA1 2BW and we will de-crunch it for you. However, this really will take longer so you are much better off getting it done on a friend's Amiga.

I can't get the *CanDo Jnr* program to work at all! All I get is a message saying 'Sorry, this is the PAL version of the software and you have an NTSC machine'. What's going on?

Well, just what it's saying really. That version of *CanDo* is for PAL machines and just won't work on the smaller screen size (but faster) NTSC types. Luckily a PAL version can be converted to an NTSC version by copying a couple of files onto it - these files will be on next month's Coverdisk.

The *CanDo Jnr* demo doesn't seem to load properly. After booting from the *CanDo* disk, it asks for *CanDo Extras*, then *CanDo*, then *CanDo Extras...* It just goes into a loop! What is wrong with it?

Nothing at all. The problem is that the program will do this on Amigas that only have one disk drive. This is because all versions of *CanDo* were designed to work on systems with at least two drives, so disk swapping is inevitable on single-drive systems. It takes 16 swaps to get into the program on a single-drive Amiga.

The *CanDo Jnr* program doesn't seem to work properly. I plough through the tutorial, but when I press the 'Release' gadget, the program just hangs! And I'm left on the work screen (the console area at the bottom is missing) and the mouse pointer has Zs all over it. Is there any way around this, or is it just a bug in the program?

It's a problem which happens on single-drive machines. It happens when the machine needs to ask for a disk swap, and leaves the Control panel behind the main working area. Innovatronics have put in a feature to get around it. Simply press Ctrl and F10 at the same time, and the work area should leap back into view. The mouse pointer may remain 'sleepy' (changed to Zs) but if you click with it it will return to the normal arrow.

I have managed to create a reasonable slideshow with *CanDo Jnr*, but cannot get it to run on a separate disk. It just comes back 'Cannot run Slideshow: error 121'. How do I get it to work?

You get error code 121 when you are using a file in the wrong way. If you type the name of a file at the Shell or CLI, then the Amiga expects that file to be a program. A *CanDo* deck is not actually a program - it is a data file, containing the information needed to find the files that the deck uses.

If you want to put a deck onto a separate disk, then the startup sequence of that disk should read:

Deckbrowser nameofdeck

Q I can't get *Animation Station* to insert stills into my anims. I click on 'Load ILBM', select the picture and nothing happens!

A The picture has been loaded into the program's internal buffer. To put it in the animation, simply click on the 'Append to Last' gadget afterwards! It's explained more fully in the Coverdisk pages of last month's *Amiga Format*.

Q Why won't *RSI Demo Maker* work on a Plus? Is it because the Plus has no fast RAM?

A Not just that. Because the A500 Plus has extra screen modes (the Enhanced Chip Set) programmers have to be careful when setting up screens and using the blitter, otherwise they confuse the extra circuitry built into later machines. The only way for programmers to know that their software works properly on a certain machine is to test it – and *RSI Demo Maker* was written before the Plus was released.

Incidentally, while I'm on the subject, George Thompson Services have become official distributors of that program. The official, commercial version (I must admit I didn't know it was commercial when I first reviewed it in PD Update) costs £25, which includes a manual on using it. GTS 0707 664654.

Q Do ROM sharers work with all versions of the Kickstart ROM chip?

A Yes they do. Kickstart 1.2, 1.3 and 2.04 all work with a ROM sharer.

Q Is it worth upgrading from *Deluxe Paint III* to *Deluxe Paint IV*?

A Only if you want to use HAM (4,096 colour) mode. It has to be said that, although *Deluxe Paint IV* is a lot better, there are a couple of things (like stencils) that work better in *Deluxe Paint III*.

Deckbrowser is about 98K in length, so don't make your decks too big. That utility (together with *Deckbinder* and *Deckrunner*) are in the C directory on the *CanDo* disk. It is wise to copy all three to the C directory of your stand-alone disk.

However, do not think that things are that simple. Once you have the *Deckbrowser* program and your deck autobooting off a disk, they will tell you that more files are needed – mostly libraries from the *CanDo* disk, but also the pictures for your slideshow. Each individual deck will need a slightly different complement of files, but the ones you always need are the *Icon.library* and *Diskfont.library*, which should be in the *libs* drawer of your stand alone disk.

Some *CanDo* decks will also need the *Cando.library*. It is illegal to distribute this on commercial disks without Innovatronics' consent. However, disks for local or PD use are fine to use this. The only way to find out how to do it is to do it – you'll need to use lots of trial and error but it is possible. The *CanDo Installer* program is useful too, for rerouting paths to picture names – otherwise you have to call your stand-alone *CanDo*, and put all the pictures in a drawer called *Images!*

I really like *CanDo Jr*, but I am stuck because of lack of documentation. Are you going to be doing a special offer for the manual, as you did for *Vista* and *Page Setter*?

No but you can get the latest version, which is *CanDo* 1.6, from our *Amiga Format* Collection Mail Order which can be found on Pages 182 and 183.

In-depth explanation No 6: Amiga memory



Best all-in-one memory expansion (unless you want to treat yourself to a hard drive with one built-in) is the SupraRAM 500RX. It's got a metal case and is very thin so it takes up as little space as possible. It also has an off switch for when you don't need it and is one of the few memory expansions with a through connector which actually works with freezer cartridges like the Action Replay.

This is the column to read if you can't understand the nitty gritty facts about Amiga memory. Here's some of the basics.

1 Computer memory of any sort is best visualised as a series of boxes. Memory is referred to by address – where in the sequence a given box is. As with most computer numbers, the lowest possible address is zero, not one as you might think. The first 2Mb of memory are reserved for chip RAM (although not all Amigas can make use of this). Exactly where fast RAM goes is up to the hardware – but it's usually the next eight megabytes of memory after that.

2 Each individual box is called a byte. Bytes are best thought of as characters of text – so about 2,000 bytes would store the contents of a page of printed text. One byte consists of eight binary digits or 'bits' for short. Each bit can be either on, or off. A byte can store a number between zero and 255.

3 Bytes cannot store large numbers. By using two bytes at a time – 16 bits – a 'word' can be used instead. A word can store a number between zero and 65,535.

4 Even words have their limits, and four bytes (32 bits) make a 'long word'. A long word can store a number between 0 and over 4,000,000,000. There is another term, 'long long word' which is only used with very powerful computers.

5 Memory is measured using two terms; Kilo byte (Kb for short); and megabyte (Mb for short). However, 1Kb is not one thousand bytes long – but 1,024 bytes. Similarly, 1Mb is not one million bytes – but 1,048,576 bytes (1,024 times 1,024). There is a third time, giga byte (Gb) but few Amigas need technical terms like that at the moment – CDs have a capacity of about 0.5Gb.

6 The reason why numbers like 1,024 and 1,048,576 are used is because computers work according to binary maths (base two) rather than the every day base 10 (decimal or denary). Just write the number one down, and keep doubling it (multiplying by two) down the page. Eventually you'll get to those dreadful numbers.

7 The reason why people use terms like K and Mb is because binary numbers are so meaningless to human beings. Of course, K and Mb are just as meaningless in themselves – but most people hate maths more than they do jargon!

8 Remember about addresses being the number of a given box? One way to illustrate what a computer looks like from the inside is a memory map. Take a look at the one in your manual.

9 You know when you get the message 'Software failure' and two long numbers? This is the computer telling you (in its own language, of course) what has gone wrong – the first number tells you what has gone wrong, and the second number tells you at what address in memory. Any time you get a software failure, jot down the numbers, and send them to the programmer, together with an explanation of what you were doing.

10 If you think that 1Mb of memory – one million character's worth – is a lot, you're wrong. One single 4,096 colour image takes up 64K of memory – if it's in interlace (double height vertically and flickery like *IntroCAD*) then it will take up 128K. In overscan (bigger than the visible screen area) then even more memory is gobbled up. One second of sampled sound occupies 32K at the fastest, most accurate rate.

MORE FACTS TOP

AMIGA



SHOPPER

THIS MONTH...

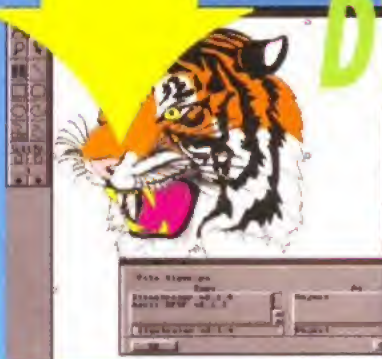
DTP SPECIAL

VIDEO

We review *DigiTiger*, *VLab* and *Reverser* and compare the best texture mapping packages for enhancing your 3D creations

PD

We show you how to create your own disk magazine with *Magnetic Pages*. PLUS: all the latest low-cost and no-cost software - this month we cover astrology, desktop video and animation programs



Thirteen pages packed with advice on how to choose the best DTP package for your needs.

Is it *Professional Page*, *PageStream* or *Saxon Publisher*? PLUS: Two new heavyweight arrivals on the Amiga DTP scene, Epson's fabulous 24-bit colour scanner and Star's top-notch PostScript laser printer. PLUS: The first part of a new tutorial on typography



PLUS: AMIGADOS AMOS MUSIC COMMS PROGRAMMING AMIGA ANSWERS

TIPS EXPERT ADVICE

EXPERT ADVICE • TOP TIPS • BEST BUYS • MORE FACTS

NEW AMIGA? MASTER IT WITH US

AMIGA SHOPPER

The top-selling serious Amiga magazine

BE A VISIONARY
We show you the best way to break into Amiga games.....Programming: page 22

MAKE A MOVIE
All you need to digitise and process pictures for your videos.....Video: page 73

CHEAT THE BEAT!
How to master your MIDI sequencing the easy way - by cheating!.....MIDI: page 76

DESIGN A DEMO
The secrets of sprite animation and scrolling routines exposed AMOS: page 84

GET ON-LINE!
Find out how to set up your own bulletin board with shareware.....Comms: page 93

CUT THAT COST!
All the latest low-cost and no-cost software PLUS DIY Diskzines.....PD: page 128

WANTED!
All your problems We just love 'em!
Nothing's too tough for
AMIGA ANSWERS
Beginner or expert - we've got the solutions



ISSUE 17 • SEPTEMBER 1992 • £1.50 • YOUR DEFINITIVE GUIDE

13 PAGES FOR PERFECT PUBLISHING

dtp

HOW TO CHOOSE THE BEST AMIGA PUBLISHING PACKAGE
Which one is worth the lay-out?

PLUS **Fonts** PLUS



BACK TO BASICS
Take control of your DTP designs with our typography tutorial

HIGH-END DTP HARDWARE!
Find out why Epson's robust scanner and Star's Postscript laser are the hits

CODE IT! 7 PAGES OF EASY TO FOLLOW PROGRAMMING EXAMPLES



ONLY £1.50 - WELL WORTH THE OUTLAY!

BLANK DISKS

100% CERTIFIED
FULLY GUARANTEED

20£7 100£28
50£15 250£65

FOOTBALL CRAZY

KICK OFF 2/PLAYER MANAGER/FINAL WHISTLE
ONLY £9.99

FREE GAME WITH EVERY ORDER

AUNT ARCTIC ADVENTURE	£5.99	PREDATOR 2	£5.99
PAPERBOY 2	£7.99	MEGALOMANIA	£8.99
NARC	£5.99	GREMLINS 2	£5.99
UNTOUCHABLES	£5.99	MIGHTY BOMB JACK	£5.99
FLIGHT OF THE INTRUDER	£8.99	MOUSE MATS	£2.50
MEGA BLASTER JOYSTICK	£5.99	PHOTON PAINT 2	£8.99
NIGHTBREED	£5.99	NAVY SEALS	£5.99
FIGHTER JOYSTICK	£5.99	WILD WHEELS	£5.99

(FULLY MICROSWITCHED, 2 FIRE BUTTONS)

LANGUAGE LEARNING PACK

SPANISH TUTOR	RRP £19.99
FRENCH MISTRESS	RRP £19.99
GERMAN MASTER	RRP £19.99
ITALIAN TUTOR	RRP £19.99

ALL 4 FOR
ONLY £19.99

WHILST STOCKS LAST



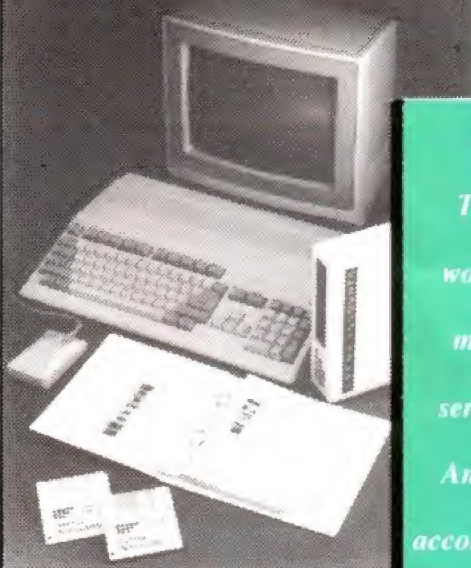
DIRECT



UNIT 3 • CROSS KEYS SHOPPING MALL
ST NEOTS • CAMBRIDGESHIRE • PE19 2AU
TEL: 0480 473331


AMIGA FORMAT

A R E N A



"All in all, the best accounting system I have seen on the Amiga and everything for less than £100. Well done Arena Technologies."

Amiga Computing



The
worlds
most
serious
Amiga
accounting
system

£99.95

Contact your
Quality Amiga Dealer
or call ASG
on (0652) 688330
Fax (0652) 688433

202

SEPTEMBER 1992

VIDEO USERS!

VIDEOWARE PRESENTS A NEW AND INNOVATIVE CONCEPT IN VIDEO TITLING THE VIDEO GOLD COLLECTION

12 disks full of superb animations and effects to transform your videos into professional looking productions instantly !!

Mix and match the animations with your own text or use our specially designed brushes and animbrushes supplied to give you endless variations and cover every occasion.

Designed by graphic artists, the volumes cover weddings • birthdays • sport • holidays • parties • children • special occasions and much more !

• All will run on Amigas with a minimum of 1 meg and DPaint 3 or 4 and any other graphics or multimedia program supporting Anim/Animbrushes.

ANIMATED WEDDING ALBUM, CHRISTENINGS, ANIMATED COPYRIGHT MESSAGES, HOLIDAYS AND PLACES, ANNIVERSARIES, CHRISTMAS - YOU NAME IT !!

and the price?
just **£29.99**
for the 12 disk collection

• Don't worry if you have little or no graphics experience. The Videogold Collection comes complete with a full user guide to enable you to get the most from the disks - we even supply a hot-line for those who need further assistance.

Please make cheques/P.O.'s payable to Videoware and send your order to:

VIDEOWARE
DEPT (AF)
50, HEATHER CLOSE
LOCKING STUMPS
BIRCHWOOD
WARRINGTON WA3 7NX

or telephone 0925 851559 for further information, help or advice.

ANALOGIC

Analogic Computers (UK) Ltd
Unit 6, Ashway Centre Telephone Mon-Fri 9am-7pm
Elm Crescent Sat 9am-5.30pm
Kingston-upon-Thames **081-546 9575**
Surrey KT5 6HH Tel/Fax: : 081-541 4671

MONITORS

Philips 15" TV/monitor (model 3332), remote control + scart cable£239.00
Philips 15" TV/monitor (model 2331), as above plus Teletext£269.00

AMIGA DRIVES

1 Meg 3.5" internal£54.95
1 Meg 3.5" external£59.95

ACCESSORIES

Amiga 512K RAM + clock.....£24.95	Rom Sharer£19.95
Amiga Plus 512K RAM.....£34.95	Mouse Mat£4.95
Amiga Plus 1 Meg.....£49.95	Dust Cover£4.95
Amiga/Atari Squik Mouse .£14.95	Super Pro Zipstick.....£14.95
Amiga Scart Cable.....£14.95	Amiga Power Supply.....£39.95
	10 Blank Disks£5.95

SPECIAL OFFER Amiga A600 RAM Expansion

1 Meg RAM.....£49.95 1Meg RAM + clock£54.95

AMIGA A500 REPAIRS

Without diagnostic fees

★ Fixed charges ★ Fast turnaround

★ Many repairs done while-U-wait

★ We provide pick-up service for repairs for only **£5.00 + VAT**

★ All prices include VAT and NEXT WEEK DAY DELIVERY subject to availability

★ Fixed charge for repair does not include disk drive replacement nor keyboard

★ All prices subject to change without notice

★ We reserve the right to refuse any Amiga repair

including NEXT DAY DELIVERY by courier

£49.95



HOW TO CONTACT AMIGA FORMAT

You can be certain of getting your enquiry to the magazine dealt with, but only if you make sure you're addressing your letter to the right person or place.

- We can never give personal replies by mail, so don't send us a stamped-addressed envelope.
- We can under no circumstances give personal replies by fax, so please don't ask us to.
- We are available for enquiries by telephone every Tuesday between 10am and 6pm, and we'll be happy to talk to you then.
- Our advertising department can help with problems concerning companies who advertise in the magazine if you phone during normal office hours.
- Our subscriptions service and the **Amiga Format** Mail Order department are not in the same building. They can be contacted on 0458 74011.

WORKBENCH

If you have any problems with the technical side of your Amiga, with hardware or with serious software, Pat McDonald will try to answer you in the mag. Or, if you have any advice for others or any handy tips to share, send it in and you could win a prize.
WORKBENCH, **AMIGA FORMAT**, 30 MONMOUTH STREET, BATH BA1 2BW

GAMEBUSTERS

If you've just found the cheat mode, mapped out the levels or found all the passwords for the latest game, send the info to Andy and you could win a prize. Or, if you're stuck, ask Helping Hand for advice – or solve someone else's problem and win a prize!
ANDY NUTTALL, GAMEBUSTERS**AMIGA FORMAT**, 30 MONMOUTH STREET, BATH BA1 2BW

LETTERS

The letters pages are there for you to air your views and share your opinions: please remember not to ask questions that should be in Workbench! Damien is looking for thought-provoking or entertaining letters, the shorter the better. Prizes given for the best two.
LETTERS TO THE EDITOR, **AMIGA FORMAT**, 30 MONMOUTH STREET, BATH BA1 2BW

COMPETITIONS

To enter a competition, write the answers and your name, address and phone number on the back of a postcard or a stuck-down envelope and send it in. You can enter as many times as you wish, but all entries must be posted separately: don't put several entries in one envelope together, or include entries with letters to any other part of the mag.
COMPETITION, **AMIGA FORMAT**, 29 MONMOUTH STREET, BATH BA1 2DL.

SPECIAL OFFERS

If you've ordered something from the **Amiga Format** Mail Order section and you've got a problem, please remember that we on the magazine don't deal with it at all. Write to Mail Order at our Somerton address or telephone 0458 74011.
AMIGA FORMAT MAIL ORDER, THE OLD BARN, SOMERTON, SOMERSET TA11 7PY.

SUBSCRIPTIONS

Similarly, if you move house and want to make sure your copy of the magazine catches up with you, then send the new address to:
AMIGA FORMAT SUBSCRIPTIONS, THE OLD BARN, SOMERTON, SOMERSET TA11 7PY.

FAULTY COVERDISKS

The disks are duplicated and stuck on the magazine by a firm we employ for that specific purpose. If you have a faulty disk, send it to them enclosing an SAE. We don't keep stocks of disks, so we can't help.
DISCOPY LABS, UNIT A, WESTMARCH, LONDON ROAD, DAVENTRY, NORTHANTS, NN11 4SA.



Letters

Hello and welcome once again to the bit of the magazine where you get to have a direct say. And, if we're going to be perfectly honest, I get a good chance to make my opinions known as well. Let's take a look and see what issues you lot have been taking an interest in. But just before we do, remember that if you've got any thoughts, ideas or opinions to offer, the address is Letters, **Amiga Format**, 30 Monmouth Street, Bath BA1 2BW. Remember, keep it short!

ART ATTACK

I'd just like to ask you if there will be an artist's page in the near future? Ya know, like a reader's graffiti board? I'm fairly new to your mag, having just got my mitts on an Amiga, and I think it's tops.

PJ Carvill, Buxton

Serendipity is the word. We used to put a reader's pic on the Coverdisk every month, but that seemed a bit selective. We've just decided that as the Letters section is the readers' part of the mag, that we ought to print readers' pics in these pages as a sort of gallery. And it starts below. If you want to see your pictures in print, send them on a disk please to The Gallery, Letters, Amiga Format, 30 Monmouth Street, Bath BA1 2BW.

LOVE SHACK

Please could you tell me the connection between American band The B-52s and the Amiga? Also, some while ago someone told me that if you type in words concerning the B-52s on the 'Insert Workbench' screen, you get special messages. Is it true?

Nicholas Death, Bow

The people who designed the Amiga were B-52s fans and in 1985, when the A500 was first made, they etched the words 'Rock Lobster' on the A500 circuit board. That's the name of the B-52's biggest hit. Keeping up with tradition, the A600 circuit board, designed just last year, has the words 'June Bug'

etched on - it's the name of a recent B-52s single And in answer to your last question, no.

A600 HARD BARGAIN

I've just bought one of the new Amiga 600HDs, after considering buying an Amiga for some time and having finally decided it was time to take the plunge. The problem is, despite the fact that it claims to be a 1Mb machine it will not run some 1Mb software.

Commodore tell me that this is because the hard drive uses some of the memory. Surely that means it is not a 1Mb machine? I think I have been misled.

John Farnham, Long Ashton

The A600HD does have a 1Mb RAM capacity, but the hard drive, when it is running, uses up a lot of this. So Commodore have not actually been misleading anyone, though it appears they have not thought to explain this problem in advance. Potential buyers of an A600HD should be aware of this.

There are ways around the problem. By holding down the mouse buttons when you boot the machine, a boot selector screen can be reached which allows you to turn off the hard drive and play games from floppy. For other programs, having only one partition on your hard drive will mean it uses a minimum of RAM.

But the only practical and permanent solution is to buy a RAM expansion, which inevitably makes the A600HD seem less of a bargain.

Continued overleaf

Vision On

Got a picture you're proud of? Send it in, see it in print and win an **Amiga Format** binder! Since Letters is where you get to contribute your words, we thought it would be the perfect place to see your pics on display too. However your image was created, whether you've sketched it in **DPaint** or generated it with a ray-tracing package, we'd like to see it. Only the best will make it into these hallowed pages. Send your entries on disk in IFF format to The Gallery, Letters, **Amiga Format**, 30 Monmouth Street, Bath BA1 2BW.



'Cat Women', by Lee Martin of Bristol.

CLASSIC ROCK

I was interested by your article on *Monkey Island* and why it should be hailed as a classic game. My all-time favourite is *Dungeon Master*, to which all other RPGs are compared. This still evokes splendid atmosphere and tension unlike anything that has followed since.

For me, a game has to fulfil these categories to be acclaimed a true classic. It must be: original; challenging; addictive; and have value for money.

Here's my top ten titles, of which the top five, in my opinion, are truly worthy of being called classics. One: *Dungeon Master*. Two: *Populous 2*. Three: *Speedball II*. Four: *Lemmings*. Five: *Arkanoid II*. Six: *Eye of the Beholder II*. Seven: *The Secret of Monkey Island*. Eight: *Another World*. Nine: *Prince of Persia*. Ten: *Gods*.

Steve Hudson, Hull

Interesting, but if one of your categories is originality, how come three of your 'classics' are sequels? It's a thought, innit?

We'd all agree, I'm sure, with all four of your criteria for a classic, but they are very much subjective ideas. Opinions, in other words. Imagine if you were sitting down to try to make a classic game: naturally, you'd want to make it addictive, original and challenging, but what is it about a game that makes it that way?

What I was trying to discuss is whether it would be possible to decide certain qualities you wanted in a game in order to make sure it becomes a classic. By breaking down certain qualities it should be possible to analyse why a game succeeds.

Monkey Island, for example, is an unoriginal game style: it's a graphic adventure. What it did well, though, was take the basic element of that kind of game - clever puzzles that are tricky but solvable - and make it work to the full. Then it added a whole extra ingredient in the form of humour, which made playing it so enjoyable.

Similarly, Lemmings is just a puzzle game with an action element added by the careful use of a time limit and by the need to switch between different types of action. But what makes it such a classic game is doing that bit superbly, and then adding the extra in the form of presentation.

NO CLASS

I think there is a much easier way to show why a game becomes a classic. Yes, gameplay and graphics count as well, but what makes a classic is a new idea. *Kick Off 2*, for example. A new idea by having a bird's eye view football game with realistic features.

Clive Whiting, Ipswich

On the contrary. Kick Off was certainly not the first footie game to have a top-down view and most footie games aim for a degree of realism. What made it a

classic was sheer speed and frantic action, coupled with a control system that made the best out of that kind of game. QED.

RATS!

With all this hype about the new Amiga baby, the A600, I think it is about time that Commodore set about redesigning that small piece of hardware that comes with every Amiga, right up to the Rolls Royce itself, the Amiga 3000.

This small, beige piece of junk has been around since before the Amiga was even launched. Long ago, I bought one for my Commodore 128. I must admit, the 1351 was fine with that old set-up. But when I was creating masterpieces with *Deluxe Paint* it didn't have the right feel and it was just frustrating running out of desk space when picking up large brushes.

So what am I rambling on about, if you haven't already guessed? Yes, your friend and mine, the Amiga mouse. There's not a lot to say in its favour when it comes to design, movement or reliability. My advice to all unsuspecting Amiga owners is buy a better mouse before it's too late!

David Broomfield, Baxterley

And by sheer coincidence, what will you find on Pages 157-160 of this very issue but reviews of all the mice we could get and advice on which is the best buy...

PLUS TARD - PAS!

I read with interest Paul Willis' letter in Issue 36 where he drew your attention to Silica's advert for the A600 CD-ROM drive, which doesn't even exist yet. You thought they were "remarkably premature" to advertise it. Well, back in April, on a holiday to France, I bought a French Amiga magazine which carried an ad placed by Commodore France themselves which mentioned what they called the A670 and even carried a picture. On further inspection it actually turned out to be an A570 that had been cunningly tilted round so that you couldn't read the label!

Matthew Armstrong, Southport

Strange stuff, eh? For anyone who doesn't know, the situation with the CD-ROM drive that allows your Amiga to run CDTV discs is that the A500 version is on sale now, while Commodore are working on one for the A600 which will have to use the now-infamous 'credit card slot'. This is technically possible but could prove tricky, so Commodore do not expect to have the A600 version out until after Christmas.

DO IT IN FULL...

In Issue 36, not one of your game reviews, with the exception of the brilliant *Monkey Island 2*, had a full two-page review. I can understand this with games that get a lower rating than 90 per cent but Format Golds

such as *Sensible Soccer* and *Striker* getting a quarter page review is just abysmal.

Stefan Allerhand, Reading

Fair comment, but it ain't necessarily so. You'll notice a few more changes in the games pages last month, to accommodate reviews of as many games as possible. What I'd like to know is, why should we give over two, three or four pages to reviewing a game if we can say it all in a quarter of a page? Your letters, please.

TRYING BEFORE YOU BUY

Mark Gaunt (Letters, Issue 36) was complaining that that computer shops should let customers try games out before they buy. Well, my local computer shop will let you play all day on games and not buy a thing. This is the only shop I know of in my area that will allow you to do this.

Andrew Canty, Ipswich

We thoroughly approve of this, but as we have said before, most shops don't want to be treated as a free arcade, so if you abuse the privilege you might find it is taken away. Perhaps readers should use their consumer choice by only going to shops that will let you play before you pay, and asking at shops if they can try a game out before handing over their money.

GOOD NEWS

June's free art package is one of the few programs that work with my Star LC-10 mono printer. I've spent hours adjusting Prefs and dip switches and still failed to print screens from *Deluxe Paint I, II and III* but *SpectraColor Junior* is great.

Tim Ainslie, Cleadon Village

Glad to be of service!

HIPPYCHICK

Reading the *Vista Terraform* write-up (Issue 35 page 154) I noticed the caption to the monolith picture 'Unfortunately you can't add lentils to the structure to make them truly Stonehenge style'. A slip of the pen or the leftovers from the Battle of the Beanfield?

Sandy Jackson, Gosport

Well, let's just say it amused us too.

MARSHMALLOWS?

About your argument that all games are made up of two types: thought games and action games ('What makes a classic?', Issue 36 Page 65). It's perfectly true, but it's like saying there are two classes of pink-and-white-marshmallows - pink and white. It would be better to represent games on some sort of scale, with 'all

Continued overleaf



'Adrenalin', by Tim Lewis of Swansea.



'Bird of Prey', by Christopher Mee.



'Lamborghini', by Mike Dobson of Stockport.

THOSE FAMOUS, FUN-FILLED KICK OFF BUGS IN FULL...

One of the best games ever made, was the footie classic Kick Off. What was so good was the frantic and unpredictable gameplay. Far from being spoiled, it was enhanced by a number of bugs which emphasised its totally wild, unpredictable, illogical nature. We asked for your favourite bugs and Lins Samaraweera of Wealdstone and N Pauwels from somewhere in Europe contributed these gems...

Any number of men can be sent off, so occasionally the whole opposing team is sent for an early bath. This means if you kick the ball out, here's no-one left to take the throw-in.

The keeper sometimes dives out of the area carrying the ball, without being penalised.

The time keeps running when you get a penalty, so you can wait until the last few seconds before taking it.

If the ball goes into touch and another player touches it after the whistle has gone, the throw can be awarded to the opposition.

Sometimes when the ball bounces back from behind the goal, a mysterious ghostly ball-boy appears.

In a really dirty match, when the team is reduced to less than six outfield players the goalie takes part in set-pieces.

In Final Whistle, every so often a player who is taking a corner runs right down to the opposite corner flag and back before taking it.

Players who are sent off in the first half sometimes reappear in the second half.

Kick Off 2 recognises goals as being scored when they hit the back of the net, so this can include shots that sneak through the side netting.

MR MEMORY PROBLEM



An A500 Plus has 1Mb already and any more you put in adds to the total, so with a 2Mb expansion you would indeed have a 3Mb machine.

A RAM disk simply means that you can set up your Amiga's Workbench to treat any or all of your RAM as if it were a disk drive: you can then write to and read from it like any other disk, except that it is very swift at accessing data. It's also referred to as the RAD: device. It's already set up on Workbench 2 for you, as an A500 Plus owner, but you would have to assign it a larger capacity. To find out how, simply look it up in the manuals which cover this subject quite well.

So what you would do with Links if you had 3Mb of RAM available would be to store the whole program in RAM and then run it from there.

I am an Amiga 500 Plus owner, and I see in your review of *Links* that it is hard drive only unless you have 3Mb of memory to store a RAM disk version.

I don't intend to buy a hard drive but a company in your magazine is advertising a 2Mb expansion and says that any memory fitted is in addition to that my machine already has. Does this mean I would have 3Mb? What is a RAM disk?

Brian Luxford, Broadstairs



'The Warrior', by Dave Kemden of Redcar.



Next month

AMIGA FORMAT ISSUE 39 OCTOBER 1992

DO NOT FORGET! Get down the shops for your copy on Thursday September 10, or you could miss it!

WHICH PRINTER?



More Amiga owners are thinking about buying a printer than almost any other extra for your Amiga. And you can see why. Imagine being able to print out your *Deluxe Paint* works in full-colour glory, or your DTP pages in sharp, crisp type...

Next month, we'll be testing all the printers that are common in the Amiga market. We'll also be telling you which are the best for you to go out and buy as well as which to avoid in every category of printer.

And more than that, we'll be explaining how all the different kinds of printers work, what the complications are when you're hooking them up to your Amiga, and how to get the best possible output.

In other words, everything you need to know about printers.

CD FOR YOUR AMIGA IS HERE!

We're currently testing one of only 16 A570 CD-ROM drives in the country. By the time the next issue is out, the A570 will be on sale. So should you rush out and buy one? At a price of £349, it's a hard decision to make.

So we'll be helping you out by telling you how the A570 performs. And we won't be stopping there. We'll examine once more the whole world of CDTV software, to see whether what the A570 makes possible is worth having or not.

WHICH WORD PROCESSOR?

We're also going to be testing every word processor on sale, to tell you which is worth saving up for, which is a good option if you need something cheap straightaway, and which to avoid.

ANOTHER COMPLETE COVERDISK PACKAGE

As ever, we don't yet have final confirmation of what it's going to be, but we're working away to get another useful and interesting program for you, and it could be worth anything between £30 and £150. What other magazine gives you more?

PLUS MUCH MORE...

Reviews will include the latest graphics program, *Professional Draw 3* from Gold Disk; the brand new 'floptical drive' storage system from Power; and the all-in-one productivity solution from Europress, *Mini Office*, which could be the answer to your home office needs. And, of course, heaps of other stuff too...

Note: contents list is subject to change at last minute

thought' (like footie management games) at one end and 'all action' (like many shoot-em-ups) at the other. Perhaps then games could be described by a percentage rating on the scale.

David Golder, Wicklow

To be honest, that's really what I was trying to say. It's interesting trying to see how a game liker Lemmings mixes thought and action, though.

HARD QUESTIONS

Does everybody have to try so hard to get on to the Letters pages? What's happened to Trenton Webb? One moment in charge of reviewing the next vanished into oblivion. Bring him back!

Patrick Grady, Inverness,

We don't make it easy. After all, we get a heck of a lot of letters every month, so we can't print them all. So the shorter, sweeter and more original your thoughts, the better.

As for Trenty, we would bring him back if we could, I'm sure, but Trenty went at the start of this year to be Editor of Commodore Format magazine, which he seems to be loving. He was replaced by the extremely capable, very tall and most excellent Neil Jackson, who is equally top

We're also saying goodbye this month to the long-serving and very popular Maff Evans, who is off to work on a new music magazine. So long, Maff, and thanks for everything except the dreadful industrial bands! Sadly, we've been joined by another crazy north-westerner who likes unpleasant music too, so it's a big hello to Andy 'Nuts' Nuttall.

GAME-MAKER 1

Are there any books about how to make computer games, explaining how to make beautiful graphics, the music and sound effects and the programs?

Derek Stafrecre, Malta

The simple answer, unfortunately, is no. There are many books on programming, but most of these are technical manuals. However, there is some light at the end of the tunnel. We are still working to bring you a full tutorial on games programming written by that expert team Bullfrog, the creators of Populous.

Judging by the amount of people who came up to us at the Amiga Shopper Show and asked when it would be along, this is a popular idea and we are trying to get it confirmed as soon as possible.

GAME-MAKER 2

I enjoy playing adventure games such as the classic Magnetic Scrolls series and I would like to have a crack at something similar. So I bought DevPac 3 and I've now realised this is not a task to be taken lightly.

Somebody, Somewhere in Summertime

Quite so. The best way to program Amiga games is in assembly language, and the best assembler is DevPac, but no-one should be under the impression that it's easy. Assembly language is complex and takes a long time to learn and master: it's worse than learning to play piano, for example.

But there are easier ways to start programming adventure games. One option, Visionary (65 per cent Issue 31) is actually a programming language, so it's no easier: write that off. Talespin is very basic, but could be a start point, especially since it's now widely available very cheaply. And 3D Construction Kit 2, demoed on this issue's Coverdisk, could be ideal

THE GREAT DEBATE GOODBYE 500, HELLO 600

Every month, we're going to pick out one topic which we've been receiving a lot of letters on and cover it in some detail.

This time around, it seems almost inevitable that worries about the demise of the A500 and the capabilities of the new A600 are uppermost in people's minds. So here's just some of the things people are saying on the topic...

This is a copy of a letter I have sent to Commodore. I am a potential Amiga buyer, I have wanted one for some time and I have been saving up the money. Out of 40 people in my office at work, there are 15 Amiga owners and an Amiga user group which I was hoping to join but now I learn that the A500 Plus has been scrapped and replaced by the A600.

My particular concern is the lack of a keypad. I have an avid interest in military aviation. We tried out a number of flight sims on my friend's A500 and, although some of the keypad functions are duplicated elsewhere on the keyboard, there were plenty of problems.

I understand that Commodore have made conversion code available to developers to remap the keypad functions to the main keyboard. However, it seems highly unlikely that companies will re-code all the currently available software. So where does that leave me?

Richard Bayliss, Wigston Harcourt

I'm still unsure about the A600. If the credit card slot is going to mean uncopyable games, this could present a couple of disadvantages.

I would have thought that software houses would be able to charge less, but on games consoles this does not seem to be the case. Exactly the same games appear on the Megadrive as on the Amiga, and for much more money. Is this because the software houses know no-one can get the games except in the shops?

Peter Reeve, Sandal

If ROM cards are to take over, what happens to good old blue 3.5" s? Games may benefit, but what about the million other uses of the floppy - saved IFFs, HAMS, samples, demos and the other 999,996 uses?

The whole point of read/write disks is their wonderful versatility. This is what made the Amiga so popular. There may be 5 million Sega Kids playing away now, but this won't always be the case.

NM Salmon, Warrington

I was reading through Issue 36 when suddenly I came across the following: "I would say this to anyone considering buying an expensive peripheral for their A500: you should ask yourself whether that money should be spent on a discontinued line."

Could you please tell me why he said this if Commodore are planning to market the A570 CD-ROM drive? I've heard it will be going at £299 or probably more. Now I'd call that expensive. Why the hell did he say that if Commodore have any hopes of selling A570s?

Antony Finch, Croydon

I wonder if these A600 smart cards are really unpiratable. Although on consoles it's not possible to copy cards, surely some hacker could write a routine to copy the information on to floppy disk and pirate the game as usual? Maybe the A600 isn't such a smart idea eh, Commodore?

Stephen Croft, Gayton

I feel thoroughly let down and angry. I do understand the need for progress but Commodore should understand the need for the 1.2 million dedicated people who own an A500s in this country who also feel let down and also the potential upgraders who would have gone on to other things.

You only have to look in your local paper to see all of a sudden how many cheap second-hand A500s have now appeared and these people are not selling A500s and then buying A600s as you predicted, no they are buying something else that is going to be a lot more stable. I have asked a lot of advertisers who are offering pathetic prices for the A500 trade-in what they are selling in exchange, and I tell you it's not the 600.

JS Britton, Winchelsea Beach

This last letter I particularly do not understand. I simply cannot see why anyone who has an A500 should suddenly want to sell it, and I don't think it's even remotely true that a lot are now being sold second-hand. Plus, we have never, ever suggested that people should sell their 500 and buy a 600.

As our Super Amigas feature this month proves, the A500 is still very much alive and kicking and is still a most remarkable computer.

The A600 is ideal for newcomers to the Amiga, and will suit most of them down to the ground. For a few more ideas on the topic, read Commodore MD Kelly Sumner's words on Page 30.

Spot the shot 38



Simply identify the game that this small portion of a screen-shot is from, write the answer on a postcard with your name and address and send it in to us.

The address is Spot the Shot 38, Amiga Format, 30 Monmouth St, Bath BA1 2BW. The first correct entry out of the hat every month will win a fabulous Amiga Format T-shirt!



The winner of Spot the Shot 36 is Martin Luck from Northampton. The correct answer was Parasol Stars. I'll avoid jokes about your surname! An incredibly trendy Amiga Format T-shirt is on its way to you.

PREMIER MAIL ORDER

Titles marked * are not yet available and will be sent on day of release.

Please send cheque/PO/Access/Visa No. and expiry date to:

Dept AF9, Trybridge Ltd., 8 Buckwins Sq., Burnt Mills, Basildon, Essex. SS13 1BJ

Please state make and model of computer when ordering. P&P inc. UK on orders over £5.00. Less than £5.00 and Europe add £1.00 per item. Elsewhere please add £2.00 per item for Airmail. These offers are available Mail Order only.

Telephone orders: Mon-Fri 9am-7pm. Saturday 10am-4pm. Fax orders: 0268 590076. Tel orders: 0268 590766

Next day service available - ring for details.

2 Hot 2 Handle	18.99	Godfather Action	19.99	Populous	8.99
3D Construction Kit	32.99	Godfather Adventure	19.99	Populous 2 (1 Meg)	19.99
4D Boxing (1 Meg)	16.99	Gods	16.99	Powerdrift	8.99
4D Driving (1 Meg)	19.99	Golden Axe	8.99	Powermonger	19.99
4 Wheel Drive	19.99	Graham Gooch *	19.99	Powermonger Data Disk 1	9.99
Addams Family	18.99	Graham Taylor	16.99	Premiere (1 Meg) *	19.99
Afterburner	6.99	Gunship 2000 * (1 Meg)	22.99	Predator	6.99
Agony	24.99	Guy Spy	19.99	Prince Of Persia	6.99
Airbus	22.99	Hard Drivin	6.99	R-Type	6.99
Air, Land, Sea	24.99	Harlequin	16.99	Railroad Tycoon (1 Meg)	22.99
Air Support *	19.99	Harpoon	22.99	Rainbow Collection	13.99
Alien 3	19.99	Harpoon Battleset 3	9.99	Rainbow Islands	6.99
Altered Beast	6.99	Harpoon Battleset 4	9.99	Rambo 3	6.99
Amos	29.99	Harpoon Scenario Editor	13.99	Ramparts *	16.99
Amos 3D	24.99	Head Over Heels	6.99	R.B.I., 2 Baseball	19.99
Amos Compiler	19.99	Heart Of China (1 Meg)	22.99	Reach for the Skies *	22.99
Another World	19.99	Heimdall (1 Meg)	19.99	Realms (1 Meg)	19.99
Arkanoid 2	6.99	Hitchhikers Guide	7.99	Red Baron (1 Meg)	22.99
Award Winners	16.99	Hook	16.99	Red Heat	6.99
Arsenal FC *	16.99	Hudson Hawk	16.99	Renegade	6.99
Ashes of Empire *	22.99	Humans *	19.99	Rick Dangerous	6.99
Assault on Alcatraz	16.99	Hunter	19.99	Rise of the Dragon (1 Meg)	22.99
B17 Flying Fortress (1 Meg) *	22.99	Ian Botham	19.99	Risky Woods *	16.99
Bards Tale Triple Pack *	24.99	IK+	6.99	Robin Hood	16.99
Batman Caped Crusader	6.99	Indy Jones - Atlantis Action *	19.99	Robocad	16.99
Batman the Movie	6.99	Indy Jones - Atlantis Adv * (1 Meg)	19.99	Robocop	8.99
Beastbusters	9.99	Int Sports Challenge	19.99	Robocop 3	16.99
Beach Volley	6.99	Ishar *	19.99	Rock Star Eat My Hamster	4.99
Billy the Kid *	16.99	Ivanhoe	6.99	Rodland	16.99
Birds of Prey (1 Meg)	22.99	Jack Nicklaus Clip Art	9.99	R-Type 2	16.99
Black Crypt	19.99	Jack Nicklaus Extra Courses	9.99	Ruff and Ready	6.99
Blues Brothers	16.99	Jack Nicklaus Golf	12.99	Rugby World Cup	16.99
Board Genius	19.99	Jack Nicklaus Unlimited Golf (1 Meg)	19.99	Run the Gauntlet	6.99
Bonanza Bros	16.99	Jaguar XJ220 (1 Meg)	16.99	Secret of Monkey Island (1 Meg)	16.99
Bubble Bobble	6.99	Jimmy Whites Snooker	19.99	Secret Monkey Island 2 (1 Meg)	24.99
Budokan	8.99	John Barnes (1 Meg)	16.99	Sensible Soccer	16.99
Cabal	6.99	John Madden	16.99	Shadow Lands	19.99
California Games	6.99	Keys of Maramon *	16.99	Shadow Warriors	6.99
California Games 2 *	16.99	Kick Off	7.99	Shinobi	8.99
Carl Lewis Challenge *	16.99	Kick Off 2 (1 Meg)	11.99	Shoot Em Up Con Kit	8.99
Campaign *	22.99	Kick Off 2	9.99	Shuttle *	34.99
Capcom Collection	19.99	Kings Quest 5 (1 Meg)	22.99	Silent Service 2 (1 Meg)	22.99
Castles	19.99	Knightmare	19.99	Silkworm	8.99
Centurion	8.99	Knights of the Sky (1 Meg)	22.99	Silly Putty *	16.99
Championship Manager (1 Meg)	16.99	K.O 2 - Final Whistle	8.99	Sim Ant	22.99
Chaos Engine *	16.99	K.O 2 - Giants of Europe *	7.99	Sim City+Populous	19.99
Chase HQ	6.99	K.O 2 - Return to Europe	7.99	Simpsons	16.99
Chuck Rock 2 *	16.99	K.O 2 - Super League *	9.99	Smash TV	16.99
Civilisation (1 Meg)	22.99	K.O 2 - Winning Tactics	5.99	Space 1889 (1 Meg)	19.99
Conan The Cimmerian *	19.99	Laser Squad 2	16.99	Space Crusade	16.99
Cool Crac Twins *	16.99	Last Ninja 2	6.99	Special Forces	22.99
Covert Action (1 Meg)	22.99	Last Ninja 3	16.99	Strider	6.99
Crazy Cars 3	16.99	Leander	16.99	Striker (1 Meg)	16.99
Cricket (1 Meg)	9.99	Leathal Weapon 3 *	16.99	Strip Poker 2 + Data	6.99
Cruise For A Corpse	19.99	Legend	19.99	Stunt Car Racer	6.99
Cyberball	6.99	Leisure Suit Larry 5 (1 Meg)	22.99	Super Hang On	6.99
Daley Thompson Challenge	6.99	Lemmings	14.99	Switchblade	6.99
Death Knights Of Krynn (1 Meg)	19.99	Lemmings Construction Kit *	16.99	Switchblade 2	16.99
Deluxe Paint 4	54.99	Lemmings Data Disk	13.99	Team Yankee	19.99
Demonsgate *	22.99	Links	24.99	Team Yankee 2 (1 Meg)	19.99
Disney Animation	59.99	Lombard Rally	6.99	Teenage Mutant Turtles 2	16.99
Dizzy Collection	16.99	Lord of the Rings	19.99	Terminator 2	16.99
Double Dragon	8.99	Lure of the Temptress	19.99	Test Drive 2 Collection	19.99
Double Dragon 2	8.99	M1 Tank Platoon	19.99	The Immortal (1 Meg)	8.99
Double Dragon 3	16.99	Magic Fly	8.99	The Manager	19.99
Dragon Ninja	6.99	Magic Pockets	16.99	Their Finest Hour (1 Meg)	19.99
Dreadnought	19.99	Man Utd. Europe	16.99	Their Finest Missions	9.99
Dune *	19.99	Mega Fortress (1 Meg) *	22.99	Thunderhawk	19.99
Dynablaster	16.99	Mega Lo Mania	12.99	Tip Off	16.99
Eff	16.99	Mega Sports *	19.99	Titus The Fox	16.99
Elvira 2 (1 Meg)	24.99	Mega Traveller 1 (1 Meg)	19.99	Toki	16.99
Epic	19.99	Mega Traveller 2 (1 Meg) *	19.99	Top Cat Bev. Hills	6.99
Euro Football Champ *	16.99	Mega Twins	16.99	Troddlers *	16.99
Euro Soccer	16.99	Microprose Golf	22.99	Turbo Challenge	8.99
Eye of the Beholder (1 Meg)	19.99	Microprose Soccer	6.99	Turbo Challenge 2	16.99
Eye Of The Beholder 2 (1 Meg)	21.99	Midnight Resistance	6.99	Turbo Challenge 3 *	16.99
Eye of the Storm *	19.99	Midwinter	14.99	Turbo Outrun	6.99
F15 Strike Eagle 2 (1 Meg)	22.99	Midwinter 2 (1 Meg)	22.99	Turrican 2	9.99
F16 Combat Pilot	8.99	Might & Magic 3 (1 Meg)	29.99	TV Sports Baseball *	19.99
F19 Stealth Fighter	19.99	Moonstone (1 Meg)	19.99	Ultima V	19.99
Falcon 3 *	24.99	New Zealand Story	6.99	Ultima 6 (1 Meg)	19.99
Ferrari Formula 1	8.99	Nigel Mansell World Champ *	16.99	Untouchables	6.99
Final Fight	16.99	Nightbreed-Action	6.99	Utopia	19.99
Fire and Ice	16.99	Ninja Collection	13.99	Utopia Data Disk	9.99
First Samurai + Mega-Lo-Mania	19.99	Operation Thunderbolt	6.99	UMS 2 (1 Meg)	19.99
Flag *	19.99	Operation Wolf	6.99	Voyager	6.99
Flight of the Intruder	14.99	Ork	19.99	Warlords (1 Meg)	19.99
Flood	8.99	Outrun	6.99	Wing Commander (1 Meg) *	22.99
Football Crazy	16.99	Outrun Europa	16.99	Wizball	6.99
Football Director 2 (1 Meg)	16.99	Pang	6.99	Wizkid *	16.99
Forgotten Worlds	6.99	Paperboy 2	16.99	Wolf Child	16.99
Formula One Grand Prix (1 Meg)	22.99	Parasol Stars	16.99	Wolf Pack (1 Meg)	19.99
Fun School 4 under 5	16.99	PGA Golf Courses	9.99	Wonderland (1 Meg)	19.99
Fun School 4 5-7	16.99	PGA Tour Golf	16.99	World Class Leaderboard	6.99
Fun School 4 7-11	16.99	Pinball Dreams	16.99	World Cup Cricket (1 Meg)	19.99
Games 92-Espana	16.99	Plan 9 Form Outer Space *	19.99	World Wrestling Fed	16.99
Gauntlet 3	16.99	Platoon	6.99	Xenomorph 2 *	16.99
Ghostbusters 2	6.99	Player Manager	12.99	Yogi's Great Escape	6.99
Ghouls and Ghosts	6.99	Pool of Radiance (1 Meg)	19.99	Yogi & Greed Monster	6.99
Global Effect (1 Meg)	19.99	Pools of Darkness (1 Meg)	21.99	Zool-Station *	16.99
G LOC	16.99				
Goblins *	16.99				

SPECIAL OFFERS

FLIGHT OF THE INTRUDER ONLY £14.99
OPTICAL MOUSE ONLY £34.99

UPGRADE YOUR AMIGA TO 1 MEG

1/2 Meg Upgrade - £24.99
1/2 Meg Upgrade + clock - £26.99

MEGA LO MANIA ONLY £12.99

STEREO SPEAKERS AMIGA ONLY £29.99

3.5" EXTERNAL DRIVE ONLY £49.99

JOYSTICKS

Quickjoy Topstar - £16.99
Comp Pro Extra - £14.99
Quickjoy 2 Turbo - £9.99
Quickshot 3 Turbo - £9.99
Quickjoy Jetfighter - £10.99

BLANK DISKS

Unbranded

10 x 3.5" DSDD - £5.99
20 x 3.5" DSDD - £10.99
50 x 3.5" DSDD - £23.99
100 x 3.5" DSDD - £44.99

Branded - TDK

3.5" DSDD - £1.25 Each

NAM

Now Only
£12.99

ADVERTISERS INDEX

16 Bit Software	190	(0423) 526322	Digital Multimedia	177	(081) 977 1105	Ocean	IFC, OBC, 3	(061) 832 6633
17 Bit Software	166	(0924) 366982	Direct	202	(0480) 473331	Omnidale	164	(0332) 291219
1st Choice (Leeds)	32-33	(0532) 634988	Dynamile Computers	70-71	(0234) 218060	Oxxi	178	(0101) 3104271227
ACS Electronics	189	(091) 455 4300	ERC	172	(0733) 573343	PD Parlour	172	(0752) 562175
ASG	202	(0625) 688330	Eagle Software	114	(081) 361 2733	PD Soft	169	(0702) 566933
AVA Developments	208	(0908) 261600	Empire Software	40	(0268) 541126	Phoenix	94-95	(0532) 311932
Aliensoft	167	(0707) 45700	Evesham Micros	162-163	(0386) 765500	Photo Plus	171	(0225) 442244
Amiga Power	72-73	(0225) 442244	Firecrest Distribution	197	(0875) 850028	Poste Haste	58	0227 764204
Amiga Shopper	200-201	(0225) 442244	Futureworld	82-83	(0234) 218060	Power Computing	IBC, 127, 210	(0234) 843388
Analogic	202	(081) 546 9575	Harwoods	42-45, 107	(0773) 520252	Premier Mail Order	207	(0268) 590760
Anglia PD	166	(0394) 283494	Hobbyte	90-91	(0727) 56005	RC Simulations	172	(0272) 550900
Ashcom	18	(0530) 411485	Home Based Business	164	(071) 701 8490	Sega Power	62	(0225) 442244
Audition Compact services	130-131	(0708) 55888	ICE	15	(0453) 756993	Silica Systems	39, 87, 147, 161, 195	(081) 309 1111
Axe Direct	117	(081) 446 5950	Innovatronics	34	(0101) 214 340 4991	Silverbird	197	(0753) 581122
BJ Printing Graphics	185	(0803) 666003	Intermediates	16-17, 67	(0279) 600204	Siren Software	29	(061) 724 7572
Barkman	197	(081) 546 5941	K2 Software	197	(0734) 583063	Snap Computers	153	(0703) 457111
Beavermass	88	N/A	Kingsfield	164	(0782) 517191	Softstore	63	(0628) 668320
Bitcon	177	(091) 490 1919	Kontax	172	(0628) 773212	Strategic Plus	189	(081) 977 8088
Brighton Computer Supplies	185	(0273) 506296	LCL	189	(0491) 579345	Switchsoft	197	(0325) 464423
Calculus	110-113	(0543) 251275	Ladbroke	188	(0772) 203166	Sysons	189	(081) 907 2100
Cheetah	46	(0222) 867777	Livewire PD	167	(0633) 615880	Total!	108	(0225) 442244
Commodore	21	(071) 833 5609	MBUK	164	(0225) 442244	Trilogic	150-151	(0274) 69115
Computerworld	80	(0253) 21657	MD Office Supplies	59	(0606) 737551	US Gold	53, 59, 63	(021) 6253366
Core Design	102	(0332) 297797	MJC Supplies	170	(0462) 481166	United PD	174-175	(0983) 529594
Dart Computer Supplies	166	(0533) 470059	Manga Video	10	POST ONLY	Videoware	202	(0925) 851559
Datagem	184	(071) 608 0624	Matrix Software	172	(0920) 444224	Vision Graphics	172	(0392) 53841
Dataplex	197	(0753) 53557	Merlin Express	50	(0602) 441442	WTS	134, 153, 179	(0582) 491949
Datel Electronics	139-143	(0782) 744707	Microprose	61, 75, 77, 79	(0666) 504326	Walkabout Music	172	(0726) 813807
Diamond Computers	98-101	(0703) 232777	Millenium Micros	185	(081) 546 6422	We Serve	156	(0705) 325354
Digita	66	(0395) 270273	Nova Computers	164	(0606) 737551	Zymant Video Products	172	(0926) 499714



**A500 + Expansion Stand
Only £29.99
including VAT & delivery**

- ★ Trade enquiries Mrs Leigh L Sharif
- ★ Delivery 5 days
- ★ Colour coded to your Amiga
- ★ Fitted in seconds
- ★ Shelf for disk drives



LEADS £5.00 PER PAIR

**CREDIT CARD HOTLINE
0908 262137**



ORDER FORM

Name

Address

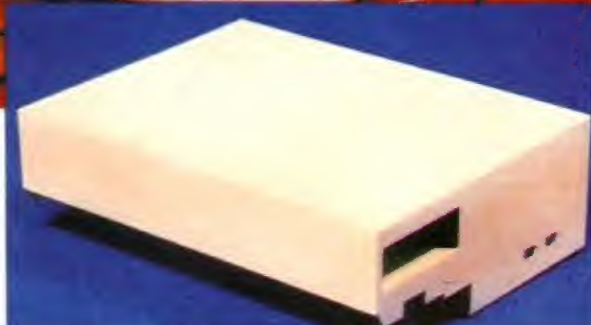
Postcode

Tel. No.

AF9/92



Cheques payable to:
AVA Developments Ltd
58 Burners Lane South
Kiln Farm
Milton Keynes
MK11 3HD
(0908) 262137



How fast can you hit a tennis ball?

Serving against British 'success' Jeremy Bates in Wimbledon 1992, Frenchman Guy Forget had his shot clocked by the BBC's new radar gun at 131 miles per hour. Our dodgy half-forgotten 'O' level maths figures this out as 64 yards per second. Since a tennis court is only 25 yards long, this hardly gives the returner much of a chance. Needless to say, the serve was an ace.

Two facts from quite different sources this month give a glimpse of the future power balance of the world. It is estimated that by the year 2010, all the Far Eastern countries which are known for cheap labour and cheap goods - Taiwan, Singapore, Mauritius and so on - will share with Japan a higher standard of living than the industrial West.

At the same time, we've just discovered that the cheapest brand-new car now available in the UK is the Yugo Tempo hatchback, at only £2,499. Bearing in mind it's made in Yugoslavia, that's possibly not too surprising. But the point is, before long Europe could be becoming a poverty-stricken backwater as far as world civilisation is concerned. And as I write, Albania is higher in the Olympic medals table than Great Britain...

Actual Reality

The future of entertainment? As prophets and visionaries predict that we will soon be escaping into an unreal world inside our computers, **Damien** makes a pioneering exploration into the shadowy world that exists outside computers. It's the latest thing it's Actual Reality, proving that life is stranger than fiction.

Will you miss the European Fighter Aircraft? When Germany pulled out of the project, we were hoping this wouldn't mean the end of the project. It really is the most amazing aeroplane. The engineers worked out that what stops a fighter aircraft from being really manoeuvrable is the fact that it is basically designed to fly straight and level, so in turns it's flying on its natural instincts. The EFA is designed to turn: it's completely unstable and the only thing that keeps it going straight and level is hundreds of adjustments to the control surfaces made every second by the computer fly-by-wire system. get a Guru on that, and you've bought a small-holding.

Our home entertainment future will be decided by the MPEG chip set (see News, Page 20), the little electronic bunch of tricks that makes it possible to store full-motion video digitally. Possibly the first real use of digital video will be in subscription cable TV, where viewers will be able to phone up and choose their film for the evening from literally thousands of movies stored digitally. It is predicted by Kelly Sumner, MD of Commodore UK, that the video rental shops will be out of business within three years. Video tape? Thing of the past...

Is there life deep under the earth? Well, yes, it seems there is. Researchers with very long drills have discovered bacteria - microbes - living in rock as much as two miles below the earth's surface. These organisms are now being cultured in the laboratory, where they need temperatures of around 100° centigrade, about the boiling point of water, in order to survive. This is bizarre because they appear to live off the energy from the earth's core, not needing the sun which it was believed was the energy source for all life. Scientists now hope that life can exist on other, more desolate planets in our solar system.

Arthur C Clark Corner

Arthur C Clarke, the science fiction writer who has predicted all kinds of technological advances that have come to pass, was back in this country the other week celebrating his birthday, or something like that. He normally lives in Sri Lanka, so it must have been a bit of a culture shock. But did you know he is a keen Amiga user, the owner of an A3000 and a big fan of the fractal landscape program *Vista*?

You have to feel sorry for the archer who shot the flaming torch into the gas flame at the Olympics opening ceremony. It looked so good as it arched through the night to light the enormous flame. The videotaped evidence showed that he missed by about eight feet and a guy in the control room started up the flame by pressing a button. He must have been so disappointed, poor chap.



A meeting of technologies at the Hockenheim Grand Prix in Germany proved fascinating. If you watched it on the telly, you will have seen the amazing pictures produced by a new slow-motion video camera used by the German television company. By running at a much higher speed, this is able to go much slower on slow-motion playback and produces the most astonishingly detailed images. On the extremely bumpy chicane, you could see quite clearly how the 'active suspension' used on Mansell's Williams coped with the bumps, sensing each change and adjusting the ride height in fractions of a second. Remarkable.

Amiga Format

CONTRIBUTORS Jason Holborn
Maff Evans
Jon Pillar
Paul Tyrell
Chris Anderson
Ed Rickets
Tim Smith
James Leach
Brian Larkman

PROMOTIONS ASSISTANT Tamara Ward

PHOTOGRAPHY Ashton James, Bradford-on-Avon

COLOUR ORIGINATORS Phoenix Repro
PRINTERS Chase Web, St Ives PLC, Plymouth

NEWS TRADE DISTRIBUTION UK Future Publishing
0225 442244
NEWS TRADE DISTRIBUTION OVERSEAS: MMC Ltd
0483 211222
CIRCULATION DIRECTOR Sue Hartley 0225 442244

Future
PUBLISHING

Home of Britain's finest magazine.

AMIGA FORMAT

Amiga Power • Amiga Shopper •
ST Format • Sega Power • Total
Amstrad Action • Your Sinclair
Commodore Format • PC Answers
PC Plus • PC Format • PCW Plus
Cycling Plus • Mountain Biking U.K.
Needlecraft • Classic CD
Crosstitch • Photo Plus

Your guarantee of value

This magazine comes from Future Publishing, a company founded just seven years ago but now selling more computer magazines than any other publisher in Britain. We offer:

Better advice. Our titles are packed with tips, suggestions and explanatory features, written by the very best in the business.

Stronger reviews. We have a cast-iron policy of editorial independence and our reviews give clear buying recommendations.

Clearer design. You need solid information fast. So our crayon-wielders

highlight key elements by using charts, diagrams, summary boxes, annotated photographs, and so on...

Greater relevance. At Future, Editors operate under two golden rules:
● Understand your readers' needs.
● Er, satisfy them.

More reader interaction. We draw on readers' contributions, resulting in the liveliest letters pages and the best reader tips. Buying one of our magazines is like joining a nationwide user group.

Better value for money. More pages, better quality - magazines you can trust.

POWER COMPUTING

Power Scanner v2.0



Features

- 100-400 DPI scanning resolutions
- 64 Greyscales
- Thru'port for printer

Software

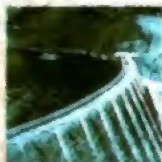
- Full screen image editor
- Interlace mode on/off
- Edit true greyscale & colour images
- Fully multi-tasking

Editing

- Cut rectangle, cut lasso, crop, flip, rotate, scale, draw, lines, circles, boxes, ellipses, freehand, zoom mode

Scanning

- Unique "True feel" real time scan mode - know instantly if you are scanning the image too quickly
- Automatic selection of 100-400 DPI
- Produce true greyscale images



Actual Amiga Screen Shots
Amiga can only display 16 greyscales

£99 inc.VAT **£239** inc.VAT
GREYSCALE COLOUR

PC880B Power Drive



£65

Viruses, diskswapping, clicking drives, disks which won't back up. Is there no end to the whingeing of the Amiga user?

At Power, we want to tell you just where you can stick your disks and worries. In fact we'll you. The slot in this picture belongs to our PC880B, the first intelligent disk drive. Insert a disk.

Now you can back up at lightning speeds using the inbuilt Blitz Amiga hardware*, with free software, (even if the disk is atari or PC) and if your computer has a virus the PC880B will stop it being written to the bootblock of any of you drives, though you can still save files as normal.

When you do not want these features, switch them off and the PC880B will sit quietly, without clicking, pretending to be simply an extra drive.

The PC880B, the only drive to introduce Blitz Amiga, the Power anti-click device and to combat viruses, is only available direct from Power, priced at just £65

We have noticed how pricey unintelligent drives are. Perhaps, it's your turn to tell people where to stick it.

*Due to the precision nature of the Blitz copier high density disks may be required with some internal drives.

Dual Drive



- Blitz copier built-in (switchable)
- Virus Blocker built-in (switchable)
- Anti-click & PSU included

£125

Blizzard Turbo Memory Board for A500/A500+

- Expand up to 8MB (0k installed)
- Memory & 68000 CPU can run with doubled clock rate of 14.28MHz
- Fast 68000 processor already installed on board
- Fully autoconfiguring, DMA compatible fast RAM
- Optical 512K shadow RAM on extra memory bank for shadowing the operating system out of ROM or from disk

£169

New Kick-Off Automatic ROM sharer

- Kick-Off is the latest Amiga add-on from Power.
- One of the most advanced Kickstart ROM sharers available, a clever design onto a small reliable board.
- Fits these Amigas - A500, A500+, A600, A1500/2000
- Kickstart ROM can be selected from the keyboard
- No messing about with switches
- Only one compact board to plug-in
- No "CIA adaptors" or other trailing wires
- Jumper to select which ROM boots on switch-on
- Compatible with old Amiga board revisions
- Simple internal fitting*

- *Kick-Off requires the lid to be removed from the Amiga. This may invalidate your warranty
- ROM share only £19.95
- ROM share inc. Kickstart v1.3 £49.95
- ROM share inc. Kickstart v2.04 £55
- ROM share inc. v1.3 & v2.04 £85

Supra Modems

- Supra Fax Modem Plus £136
- Supra Fax Modem v32 BIS £295
- Supra Modem 2400 (External) £91
- Supra Modem 2400 Plus (External) £111
- Supra Modem 2400 ZIplus (Internal) £134

Name	Description
Address	
Postcode	Credit Card No. <input type="text"/>
Telephone No.	Expiry Date <input type="text"/>
System Owned	Signature

I enclose a cheque/PO for
&

Make cheques payable to Power Computing Ltd
Fill in your order form and send it to:
Power Computing Ltd
Unit 8 Railton Road
Woburn Road Industrial Estate
Kempston Bedford MK42 7PN

Ring your credit card order on **0234 843388**
or fax on **0234 840234**

All prices include VAT, delivery and are subject to change.
Specifications are subject to change without notice.
Next day delivery **£4.50** (U.K. mainland only). All trademarks acknowledged

POWER COMPUTING

Commodore A600



The new compact A600 from Commodore
 Built-in TV modulator
 Workbench & Kickstart 2
 Enhanced chip set
 1MB of chip RAM
 IDE hard disk controller built-in
 Credit card size RAM & ROM slot
 A600 **£399**
 A600 with 20MB **£499**
 A600 with 40MB **£599**
 A600 with 80MB **£699**

A600 Memory Cards

1MB RAM with clock **£49.95** without clock **£45**

Miscellaneous



10 Maxell disks, optical mouse, Zipstick **£45**
 Power Mouse **£15**
 Optical Mouse **£29.95**
 Replacement optical mouse mat **£9.95**
 A500 Plastic dust cover **£9**
 Maxell multi colour branded disks (Box of ten) **£9.95**
 Floppy disks bulk **£POA**

Blitz Amiga

Back up disks at lightning speed
 Stops all external drives from clicking
 Contains anti-virus from being written into the bootblocker **£20**

New PC880B

Now with X-Copy Professional!

Power Computing have teamed up with **Cachet** of Germany to bring you the ultimate in disk backup systems.

The new **PC880B** disk drive can be used directly with the X-Copy Professional 'Cyclone' software without any extra cables or interfaces. This gives you the the power and reliability of the proven 'Cyclone' backup software with the convenience of the **PC880B** floppy drive.

So now you can have two backup systems 'Blitz' and 'Cyclone' available at the touch of a button! And the **PC880B** still has our unique switchable anti-virus mode, preventing all write accesses to the bootblock of your floppy disks!

If you all ready own a **PC880B**, and the Cyclone copier, a hardware upgrade is available to take your drive up to the latest specification.

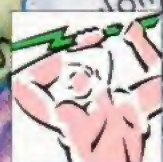
New **PC880B** with Blitz & X-Copy **£90.00**
 New **PC880B** (Cyclone compatible) **£75.00***
 Cyclone hardware upgrade for existing **PC880B** owners **£15.00**

*This drive is available only to REGISTERED owners of X-Copy Professional. You must provide proof of purchase of X-Copy Professional.

PC880 Disk drive **£49.95**
PC881 A500 Internal drive **£40.00**
PC882 A2000 Internal drive **£45**
A500 Internal anti-click board **£9.95**

Special upgrade offer!

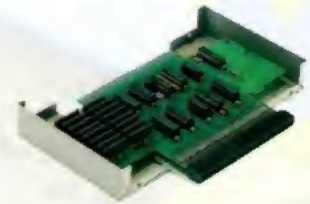
If you consider your scanner system to be inferior to the Power Scanner, we will happily upgrade your software and interface for only **£49.95** (Power Scanner is compatible with most scanning heads.)



PC501+ RAM Card

Our RAM board is designed specially for the new A500+ computer and comes with 1MB of RAM on board to expand your memory to 2MB of chip RAM. Plug in and go operation (fits into trapdoor). Gives you a total of 2MB of chip RAM **£49**
 32 chip RAM card **£39.95**

8MB for any A500



Plugs into side slot
 Fully auto config
 Full thru'port
 Expand 2MB-8MB
 2MB **£129** 4MB **£189**
 8MB **£299** 1 x 4Zip **£19.95**

2MB for any A500

Economy 2MB RAM externally cased
 16-Chip (1 x 1 DIP)
 No thru'port **£99.95**

1.5MB RAM Board

Plugs easily into your Amiga
 Fully supports 1MB chip RAM
 Fully compatible with Fatter Agnus **£79**
 (Kickstart 1.3 and above, not compatible with A500+)
 (Your Amiga needs to be opened, this may effect your warranty)

1MB with Thru'port

Expand your A500's memory to a total of 2MB without disposing of your existing 512K upgrade. Works with 1MB of chip RAM, simple internal fitting. **£49.95**
 (512K RAM must be 4 chip type, or not exceeding 9cm in length)
 (Your Amiga needs to be opened, this may effect your warranty)

A500 RAM Card

512K RAM expansion with battery backed clock and a free disk packed with useful software (4 chip RAM) **£29**
 512K RAM card without clock **£24**
 16 chip RAM card with clock **£24**
 16 chip RAM card without clock **£19**
 (A500+ compatible)

Aries RAM A1500/A2000

2MB **£129** 4MB **£169** 6MB **£209** 8MB **£249**

Send your order to Power Computing Ltd, Unit 8 Railton Road, Woburn Road Industrial Estate, Kempston, Bedford MK42 7PN
 Ring your credit card order through on **0234 843388 (10 lines)** or Fax on **0234 840234** Technical helpline **0234 841882**

All prices include VAT, delivery and are subject to change. Specifications are subject to change without notice. Next day delivery **£4.50** (U.K. mainland only), all trademarks acknowledged

THE MOST ADVANCED SOFTWARE ENTERTAINMENT EXPERIENCE



Take charge of an entire planet from its birth until its death - 10 billion years later. Guide life from its inception as single-celled microbes to a civilization that can reach for the stars.

Place life-forms on the land and in the sea. Put various levels of civilization where you want them. Use special Terraforming Tools to change an inhospitable world into a paradise.

Unleash volcanoes, earthquakes, meteors, tidal waves, and other natural (and unnatural) powers to reshape your planet.

View the entire world as either a flat projection or a spinning globe. Multiple maps track everything from continental drift to biological diversity. Close-up views, for inspecting and modifying planets, display climate, life, and data layers.

Control your planet's Geosphere, Atmosphere, Biosphere and Civilizations.

Place an infinite number of worlds. Take over existing planets, or create new, randomly generated worlds.

variety of graphs and information windows reveal every detail of your planet.

- Promote life
- Move mountains
- Create and destroy continents
- Terraform hostile worlds
- Influence evolution
- Cultivate intelligent life-forms
- Create civilized dinosaurs, mollusks, mammals, and more
- Guide your intelligent species through the trials of war, pollution, famine, disease, global warming, and the greenhouse effect.

The Living Planet

Inspired by James Lovelock's Gaia hypothesis, SimEarth simulates the Earth as a single living organism.

TRADEMARK & COPYRIGHT 1990
MAXIS and WILL WRIGHT
ALL RIGHTS RESERVED

CBM AMIGA



OCEAN SOFTWARE LIMITED
6 CENTRAL STREET
MANCHESTER M2 5NS
TEL: 061 832 6633
FAX: 061 834 0650